

SAMSUNG TECHWIN

DECODER VIDEO DI RETE

Manuale utente

SPD-400



Decoder video di rete

Manuale utente

Copyright

©2013 Samsung Techwin Co., Ltd. Tutti i diritti riservati.

Trademark

 **SAMSUNG TECHWIN** è il logo registrato di Samsung Techwin Co., Ltd.
Il nome di questo prodotto è un marchio registrato di Samsung Techwin Co., Ltd.
Gli altri marchi citati in questo manuale sono marchi registrati della loro rispettiva azienda.

Restrizione

Samsung Techwin Co., Ltd si riserva i diritti d'autore di questo documento. In nessun caso questo documento potrà essere riprodotto, distribuito o modificato, parzialmente o interamente, senza l'autorizzazione formale di Samsung Techwin.

Declinazione di responsabilità

Samsung Techwin fa del suo meglio per verificare l'integrità e la correttezza dei contenuti del presente documento, ma non viene fornita una garanzia formale. L'uso di questo documento e i risultati che ne conseguono ricadono interamente sotto la responsabilità dell'utente. Samsung Techwin si riserva il diritto di modificare i contenuti di questo documento senza preavviso.

- ❖ Il progetto e le specifiche sono soggetti a modifiche senza preavviso.
- ❖ La password predefinita è esposta agli attacchi degli hacker, pertanto si consiglia di cambiare password dopo l'installazione del prodotto.
Si ricorda che la responsabilità per problemi di sicurezza o altro genere derivanti dal non aver cambiato la password è a carico dell'utente.

ISTRUZIONI DI SICUREZZA IMPORTANTI

1. Leggere queste istruzioni.
2. Conservare queste istruzioni.
3. Rispettare tutti gli avvertimenti.
4. Seguire tutte le istruzioni.
5. Non utilizzare questo apparecchio vicino all'acqua.
6. Pulire solo con un panno asciutto.
7. Non bloccare nessuna apertura di ventilazione.
Istallare seguendo le istruzioni del fabbricante.
8. Non istallare vicino a fonti di calore quali caloriferi, stufe o altri prodotti (compresi gli amplifi catori) che possano produrre calore.
9. Non eludere il sistema di sicurezza della spina polarizzata o a terra.
Una spina polarizzata è costituita da due spinotti, uno più grande dell'altro.
Una spina con presa a terra ha due spinotti e un terzo per la presa a terra.
Lo spinotto più grande o il terzo spinotto sono stati previsti per la vostra sicurezza.
Se la spina fornita non entra nella presa, mettersi in contatto con l'elettricista per la sostituzione della presa obsoleta.
10. Proteggere il cavo dell'alimentazione per evitare che sia calpestato o schiacciato, facendo particolare attenzione alle spine, alle prese e al punto in cui i cavi escono dell'apparecchio.
11. Utilizzare solo connettori/accessori indicati dal fabbricante.
12. Utilizzare solo carrelli, supporti, treppiedi, staffe o tavoli consigliati dal produttore o venduti assieme all'apparecchio. Qualora si utilizzi un carrello, spostare il gruppo carrello/apparecchio con attenzione per evitare che si ribalti provocando incidenti.
13. Durante forti temporali o se non viene utilizzato per lunghi periodi di tempo, scollegare l'apparecchio dall'alimentazione elettrica.
14. Rivolgersi a personale specializzato per qualsiasi riparazione.
Le riparazioni sono richieste quando l'apparecchio viene in qualche modo danneggiato, ad esempio quando viene danneggiato il cavo di alimentazione o la spina, se è stato versato qualche liquido nell'apparecchio o vi sono caduti degli oggetti o se è stato esposto alla pioggia o all'umidità, se non funziona normalmente o se è caduto.



AVVERTENZA

PER RIDURRE IL RISCHIO DI INCENDIO O DI SCOSSA ELETTRICA, NON ESPORRE L'APPARECCHIO A PIOGGIA O A UMIDITÀ. NON INSERIRE OGGETTI METALLICI ATTRAVERSO LE GRIGLIE DI VENTILAZIONE O ALTRE APERTURE DELL'APPARECCHIATURA.

Non schizzare o sgocciolare liquidi sull'apparecchio e non porre su di esso oggetti contenenti liquidi, come ad esempio vasi di fiori.

ATTENZIONE

	ATTENZIONE RISCHIO DISCOSSA ELETTRICA NON APRIRE	
ATTENZIONE : PER RIDURRE I RISCHI DI SCOSSA ELETTRICA, NON RIMUOVERE IL COPERCHIO (O IL PANNELLO POSTERIORE). ALL'INTERNO NON VI SONO PARTI CHE L'UTENTE POSSA RIPARARE. RIVOLGERSI A PERSONALE QUALIFICATO.		

SPIEGAZIONE DEI SIMBOLI GRAFICI



Il simbolo del fulmine con la freccia all'interno del triangolo avverte l'utente della presenza di una "tensione pericolosa" all'interno del prodotto, che può essere di intensità sufficiente per costituire un rischio di scossa elettrica alle persone.



Il simbolo del punto esclamativo all'interno del triangolo avverte l'utente della presenza di importanti istruzioni di funzionamento e manutenzione nella documentazione che accompagna il prodotto.

Prodotto di classe I

Un apparecchio di classe I viene connesso alla presa di RETE con una connessione di messa a terra di sicurezza.

Batteria

Le batterie (pacco batterie o batterie installate) non devono essere esposte a eccessivo calore, come luce del sole, fuoco o simili.

ATTENZIONE

Rischio di esplosione se la batteria è sostituita con una batteria di tipo non corretto. Smaltire le batterie usate attenendosi alle istruzioni.

Queste istruzioni di manutenzione devono essere utilizzate esclusivamente da personale di assistenza qualificato.

Per ridurre il rischio di scosse elettriche non eseguire interventi di manutenzione diversi da quelli indicati nelle istruzioni per l'uso a meno di essere in possesso della qualifica adatta a tale scopo.

L'apparecchiatura informatica (ITE) deve essere collegata solo a reti PoE senza instradamento all'impianto esterno.

Leggere attentamente le seguenti precauzioni di sicurezza raccomandate.

- Non collocare l'apparecchio su superfici irregolari.
- Non installare su superfici esposte alla luce diretta del sole, vicino a fonti di calore o a zone di freddo intenso.
- Non collocare l'apparecchio vicino a materiali conduttivi.
- Non tentare di effettuare personalmente interventi di assistenza sull'apparecchio.
- Non collocare bicchieri d'acqua sul prodotto.
- Non installare vicino a sorgenti magnetiche.
- Non ostruire le aperture per la ventilazione.
- Non appoggiare oggetti pesanti sul prodotto.

Il manuale utente è una guida all'uso dei prodotti

I simboli utilizzati nel manuale hanno i seguenti significati

- Riferimento : fornisce informazioni sull'uso del prodotto
 - Avvertenza : Se vi è la possibilità di danni a persone o oggetti provocati dalla mancata osservanza delle istruzioni
- ※ Per ragioni di sicurezza, leggere questo manuale prima di utilizzare il prodotto e conservarlo in un luogo sicuro.

INDICE

PANORAMICA

3

- 3 Istruzioni di sicurezza importanti
- 9 Caratteristiche del prodotto
- 9 Specifiche raccomandate per il PC
- 10 Contenuto della confezione
- 11 Panoramica generale

INSTALLAZIONE E COLLEGAMENTO

14

- 14 Collegamento ad altri dispositivi

CONNESSIONE DI RETE E IMPOSTAZIONE

19

- 19 Configurazione del decoder video di rete in ambienti LAN
- 20 Collegamento del decoder video di rete direttamente a un modem via cavo/DSL DHCP
- 21 Collegamento del decoder video di rete al router a banda larga collegato al modem via cavo
- 22 Tasti utilizzati in IP Installer
- 23 Impostazione dell'IP statico
- 27 Configurazione IP dinamico
- 28 Collegamento al dispositivo di rete da un PC locale condiviso

VISUALIZZATORE WEB

29

- 29 Accesso al decoder video di rete
- 30 Login

SCHERMATA DI CONFIGURAZIONE

31

- 31 Configurazione
- 31 Configurazione di audio e video
- 39 Configurazione di rete
- 41 Configurazione evento
- 43 Configurazione del sistema

APPENDICE

48

- 48 Specifica
- 50 Presentazione del prodotto
- 51 Risoluzione dei problemi
- 52 Open Source Announcement
- 53 License
- 56 GPL/LGPL Software License

CARATTERISTICHE DEL PRODOTTO

- **Supporta la decodifica in più formati**

Il decoder video di rete utilizza la decodifica in più formati H.264/MPEG-4/MJPEG per decodificare e visualizzare fino a 4 flussi video trasferiti attraverso la rete.

- **Supporta la visualizzazione video Full-HD**

La massima risoluzione di uscita supportata è di 1920x1080 ed è fornita di porte di uscita HDMI, VGA e CVBS (BNC) per la visualizzazione.

- **Monitoraggio allarme**

Quando in una videocamera di rete o nell'encoder si verifica un evento, la schermata di monitoraggio passa al video corrispondente in base alle impostazioni.

SPECIFICHE RACCOMANDATE PER IL PC

- CPU : Intel(R) Core(TM)2 2.00 GHz o superiore
- Sistema operativo: Windows XP, VISTA, 7
Mac OS
- Risoluzione: 1280X1024 pixel o superiore
- RAM : 1GB o superiore
- Browser Web: Internet Explorer 7.0 o 8.0, Firefox, Chrome, Safari
- Memoria video: 128MB o superiore

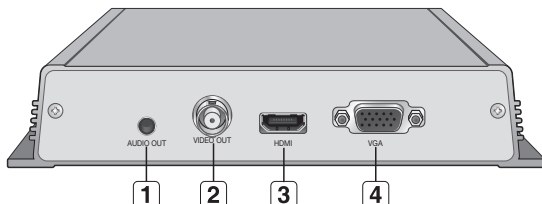
CONTENUTO DELLA CONFEZIONE

Verificare che nella confezione siano contenuti il decoder video di rete e tutti gli accessori.

Aspetto	Articolo	Quantità	Descrizione
	SPD-400	1	
	Libretto istruzioni, CD di installazione	1	Manuale utente, Programma S/W del IP Installer
	Guida rapida	1	
	Vite di fissaggio gruppo	4	Per montaggio a parete

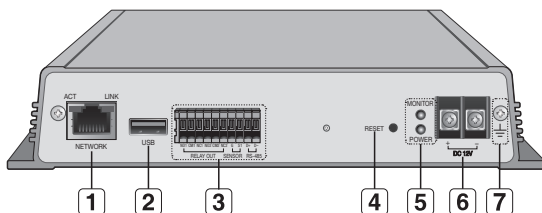
PANORAMICA GENERALE

Lato anteriore



Voce	Descrizione
1 AUDIO OUT	Questa porta emette segnali audio selezionati dal dispositivo collegato attraverso la rete, in base alle impostazioni.
2 VIDEO (CVBS) OUT	Porta di uscita BNC per la visualizzazione Questa porta emette segnali video solo se è selezionato il modo CVBS.
3 HDMI	Porta di uscita HDMI per la visualizzazione Questa porta emette segnali video solo se è selezionato il modo HDMI o VGA.
4 VGA	Porta di uscita VGA per la visualizzazione. Questa porta emette segnali video solo se è selezionato il modo HDMI o VGA.

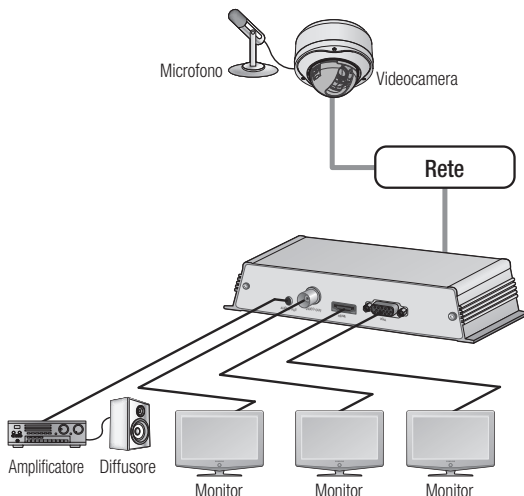
Lato posteriore



Voce	Descrizione	
1 NETWORK	Per collegare un cavo Ethernet.	
2 USB	Questa funzione non è correntemente disponibile.	
3 I/O Port	RS-485 D+/D-	Questa funzione non è correntemente disponibile.
	NO1/NO2	Uscita allarme (per normalmente aperto)
	CM1/CM2	Uscita allarme (comune)
	NC1/NC2	Uscita allarme (per normalmente chiuso)
	S1	Una porta del sensore di ingresso allarme.
	G	Porta di collegamento a massa per il segnale esterno.
4 RESET	Questo tasto inizializza le impostazioni del decoder video di rete o seleziona l'uscita monitor. Tenere premuto il tasto per almeno 5 secondi; l'indicatore di sistema si spegne, vengono inizializzate le impostazioni e il sistema si riavvia. Premere il tasto per circa 1 secondo; il colore del LED DEL MONITOR cambia a seconda del modo di uscita video.	

Voce	Descrizione	
5 LED Alimentazione, Monitor	MONITOR	Indica il modo di uscita video. Verde: Modo di uscita HDMI or VGA. Giallo: Modo di uscita CVBS. ■ Per cambiare il modo di uscita video, cambiarlo nelle impostazioni video del visualizzatore web o tenere premuto [RESET] per circa 1 secondo.
	POWER	ON : Quando l'apparecchio è acceso. OFF : Quando l'apparecchio è spento.
6 Porta di alimentazione	Per collegare la sorgente di alimentazione specificata.	
7 GND	È utilizzata per il collegamento a massa.	

COLLEGAMENTO AD ALTRI DISPOSITIVI



Collegamento dell'uscita video

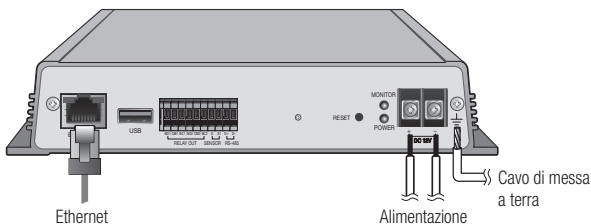
Collegare un monitor all'uscita video preferita del decoder video di rete.



- Il segnale video viene emesso attraverso la porta a seconda dell'impostazione configurata nel Visualizzatore Web "**Conf. display > Monitor**". (pagina 37)
- In modo di uscita HDMI o VGA, lo schermo potrebbe non avere un rendering ottimale se la risoluzione configurata non è supportata dal monitor.
- Tenere premuto il tasto **[RESET]** per circa 1 secondo per cambiare il modo di uscita video.
- Il LED DEL MONITOR cambia colore a seconda dell'impostazione.

Collegamento ingresso/uscita audio

1. Collegare un microfono alla videocamera di rete o all'encoder e impostare l'impostazione audio del dispositivo corrispondente su <ON>.
 2. Impostare la CONFIGURAZIONE AUDIO della rete su ON nelle impostazioni del formato singolo del decoder video e selezionare le sue uscite dalla linea di uscita e dall'uscita HDMI nelle impostazioni audio. HDMI OUT per l'uscita audio può essere selezionato solo quando l'uscita monitor è impostata su HDMI.
 3. Quando si utilizza Line Out, collegare i terminali LINE IN del diffusore e AUDIO OUT del decoder video di rete.
 4. Per l'uscita HDMI, collegare un monitor HDMI alla porta HDMI.
 - Per l'uscita audio HDMI è necessario un monitor con diffusore integrato.
- ! ■ Si può verificare il caso che l'audio HDMI non funzioni con alcuni monitor particolari.



Collegamento Ethernet

Collegare il cavo Ethernet alla rete locale o a Internet.

installazione e collegamento

Alimentazione

Utilizzare il cacciavite per collegare ciascun terminale (+, -) del cavo di alimentazione alla relativa porta dell'decoder video di rete.



- Fare attenzione a non invertire la polarità quando si collega il cavo di alimentazione.
- Se si intende collegare un dispositivo esterno, questo deve essere spento prima di procedere.

Resistenza elettrica del filo di rame a [20°C (68°F)]

Diametro del filo di rame (AWG)	#24(0,22mm²)	#22(0,33mm²)	#20(0,52mm²)	#18(0,83mm²)
Resistenza (Ω/m)	0.078	0.050	0.030	0.018
Caduta di tensione (V/m)	0.028	0.018	0.011	0.006
Distanza raccomandata (m)	Meno di 20	Meno di 30	Meno di 30	Meno di 30

- Come indicato nella tabella sopra, a seconda della lunghezza del filo è possibile incontrare un buco di tensione.
Se si utilizza un filo troppo lungo per il collegamento all'decoder video di rete, l'decoder video di rete potrebbe non funzionare correttamente.
 - Tensione operativa dell'decoder video di rete: 12 V CC±10%
 - Le misurazioni della caduta di tensione sul grafico in alto possono variare a seconda del tipo e della costruzione del filo di rame.

Messa a terra del prodotto

Utilizzare un cacciavite per collegare il cavo di messa a terra alla vite FG vicino all'ingresso di alimentazione.



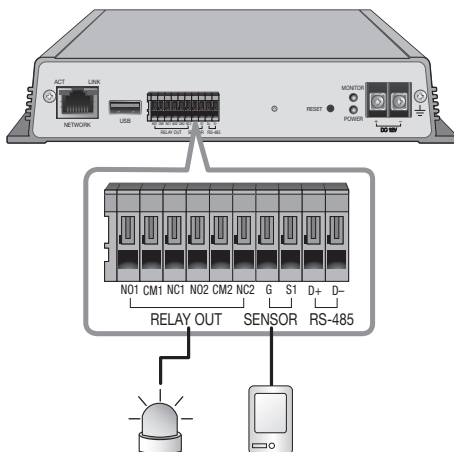
- La messa a terra protegge il prodotto da sovraccorrente o da scariche atmosferiche.
- Durante la messa a terra, accertarsi che il prodotto sia spento.

Cavo di messa a terra raccomandato

- Lunghezza: inferiore a 3m
- Sezione conduttore: 18 AWG o maggiore
Es) UL1007 AWG 18/16, UL1015 AWG18/16/14/12, UL2468 AWG18/16/14

Collegamento alla porta I/O

Collegare il segnale di ingresso/uscita allarme alla porta corrispondente sul lato posteriore.



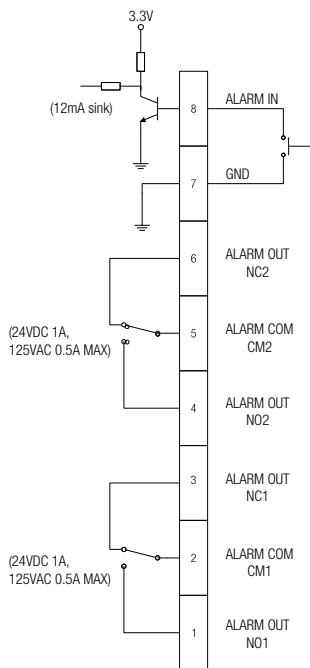
Collegamento all'ingresso allarme

Collegare uno dei 2 cavi di segnale del sensore applicabile alla porta [S1] e l'altro alla porta [G].

Collegamento dell'uscita allarme

Collegare uno dei 2 cavi di segnale del dispositivo esterno applicabile a [RELAY OUT (NC, NO)] e l'altro alla porta [CM].

Schema elettrico ingresso/uscita allarme



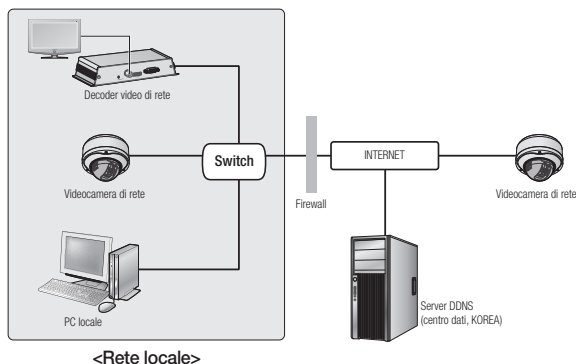
connessione di rete e impostazione

È possibile configurare le impostazioni di rete del decoder video di rete in base alle proprie preferenze.

CONFIGURAZIONE DEL DECODER VIDEO DI RETE IN AMBIENTI LAN

Accesso al decoder video di rete da un PC all'interno della stessa LAN

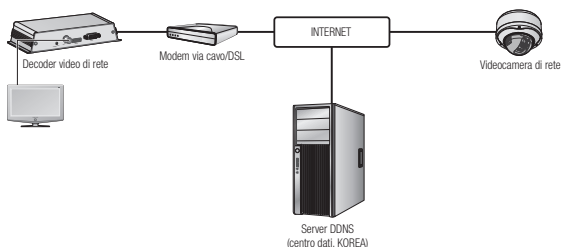
1. Avviare un browser Internet sul PC locale.
2. Inserire l'indirizzo IP del decoder video di rete nel campo di indirizzo del browser.



- I PC remoti collegati a una rete esterna alla LAN potrebbero non riuscire a connettersi al decoder video di rete installato nella rete Intranet se se è impostato un firewall.
In questo caso, per risolvere il problema, contattare l'amministratore di rete.
- L'indirizzo IP predefinito è impostato su 192.168.1.200.
Per cambiare l'indirizzo IP utilizzare l'IP Installer.
Per ulteriori dettagli sull'uso dell'IP Installer, vedere "Impostazione dell'IP statico". (pagina 23)

connessione di rete e impostazione

COLLEGAMENTO DEL DECODER VIDEO DI RETE DIRETTAMENTE A UN MODEM VIA CAVO/DSL DHCP



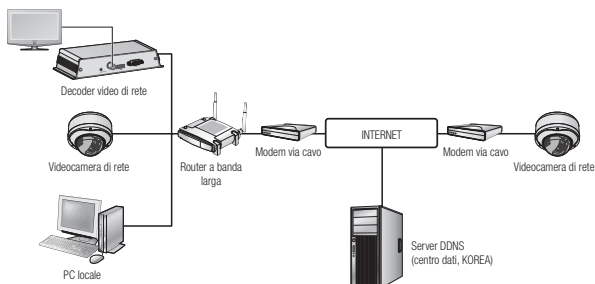
1. Utilizzare un cavo incrociato per collegare il decoder video di rete ad un computer.
2. Eseguire il programma IP Installer e modificare l'indirizzo IP del decoder video di rete in modo da poter utilizzare il browser Web sul desktop per collegarsi a Internet.
3. Accedere al decoder video di rete utilizzando un browser Internet.
4. Passare alla pagina **[Configurazione]**.
5. Passare a **[Rete]** – **[Interfaccia]** e impostare il tipo IP su **[DHCP]**.
6. Collegare il decoder video di rete rimosso dal PC direttamente al modem.
7. Riavviare il decoder video di rete.



- Per impostare il tipo IP, vedere **"Interfaccia"**. (pagina 39)

COLLEGAMENTO DEL DECODER VIDEO DI RETE AL ROUTER A BANDA LARGA COLLEGATO AL MODEM VIA CAVO

Per reti di piccole dimensioni come abitazioni, piccoli uffici e negozi comuni.



Configurazione delle impostazioni di rete del PC locale collegato ad un router a banda larga

Per configurare le impostazioni di rete del PC locale collegato ad un router a banda larga, seguire le istruzioni riportate di seguito.

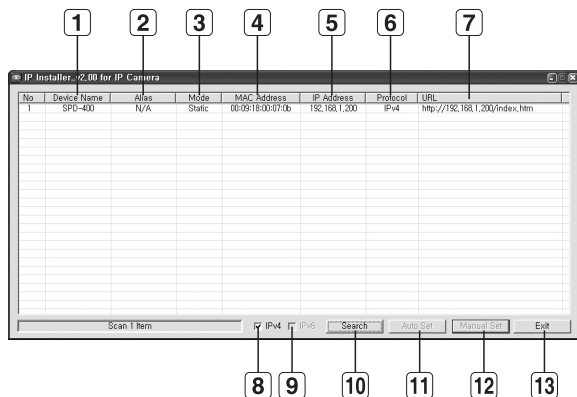
- Selezionare: <Network Neighborhood> → <Properties> → <Local Area Connection> → <Properties> → <General> → <Internet Protocol (TCP/IP)> → <Properties> → <Obtain an IP address automatically> o <Use the following IP address>.
- Seguire le istruzioni riportate di seguito se si seleziona <Use the following IP address>:
 - es1) Se l'indirizzo (IP LAN) del router a banda larga è 192.168.1.1
Indirizzo IP: 192.168.1.200
Subnet Mask : 255.255.255.0
Gateway predefinito: 192.168.1.1
 - es2) Se l'indirizzo (IP LAN) del router a banda larga è 192.168.0.1
Indirizzo IP: 192.168.0.200
Subnet Mask : 255.255.255.0
Gateway predefinito: 192.168.0.1
 - es3) Se l'indirizzo (IP LAN) del router a banda larga è 192.168.xxx.1
Indirizzo IP: 192.168.xxx.200
Subnet Mask : 255.255.255.0
Gateway predefinito: 192.168.xxx.1



- Per l'indirizzo del router a banda larga, vedere la documentazione del prodotto.

connessione di rete e impostazione

TASTI UTILIZZATI IN IP INSTALLER



Voce	Descrizione
1 Device Name	Nome del modello del dispositivo di rete collegato. Fare clic sulla colonna per ordinare l'elenco in base al nome del modello. Tuttavia, facendo clic durante la ricerca, questa viene arrestata.
2 Alias	Al momento questa funzione non è implementata.
3 Modo	Visualizza <Static> o <Dynamic> per l'attuale stato di connessione alla rete.
4 Indirizzo MAC (Ethernet)	Indirizzo Ethernet del dispositivo di rete collegato. Fare clic sulla colonna per ordinare l'elenco in base a l'indirizzo Ethernet. Tuttavia, facendo clic durante la ricerca, questa viene arrestata.
5 Indirizzo IP	Indirizzo IP. Fare clic sulla colonna per ordinare l'elenco in base all'indirizzo IP. Tuttavia, facendo clic durante la ricerca, questa viene arrestata. L'impostazione predefinita è "192.168.1.200".
6 Protocollo	Impostazioni di rete del dispositivo di rete. L'impostazione predefinita è "IPv4". Gli encoder di rete con l'impostazione IPv6 appariranno "IPv6".

Voce	Descrizione
7 URL	Mostra l'indirizzo URL.
8 IPv4	Ricerca i dispositivi di rete impostati su IPv4.
9 IPv6	Ricerca i dispositivi di rete impostati su IPv6. Attivato in un ambiente compatibile con IPv6.
10 Ricerca	Ricerca i dispositivi di rete al momento collegati alla rete. Tuttavia questo tasto viene disattivato se non sono selezionati né IPv4 né IPv6.
11 Auto Set	L'IP Installer configura automaticamente le impostazioni di rete.
12 Manual Set	Le impostazioni di rete devono essere configurate manualmente.
13 Exit	Chiude il programma IP Installer.



- Per IP installer, utilizzare esclusivamente la versione del programma di installazione fornita nel CD di installazione.

IMPOSTAZIONE DELL'IP STATICO

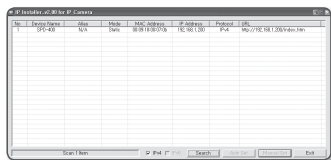
Configurazione manuale della rete

Eseguire <IP Installer_vX.XX.exe> per visualizzare l'elenco di ricerca dei dispositivi di rete. Al primo avvio, sia [Auto Set] che [Manual Set] sono disattivati.



- Nei dispositivi rete trovati con impostazione IPv6, questi tasti sono disabilitati dato che i dispositivi di rete non supportano questa funzione.

1. Selezionare un dispositivo di rete dai risultati della ricerca.
Cercare l'indirizzo MAC (Ethernet) posto sulla parte posteriore del dispositivo di rete.
I tasti [Auto Set] e [Manual Set] sono entrambi attivati.



2. Fare clic su [Manual Set].
Viene visualizzata la finestra di dialogo per l'impostazione manuale.
Vengono visualizzati i valori predefiniti del dispositivo di rete: <IP Address>, <Subnet Mask>, <Gateway>, <HTTP Port> e <VNP Port>.

connessione di rete e impostazione

3. Inserire le informazioni necessarie nel riquadro **<Address>**.

- MAC (Ethernet) Address : L'indirizzo MAC (Ethernet) del dispositivo di rete applicabile viene impostato automaticamente in modo da non doverlo inserire manualmente.

The 'Manual Setting' dialog box contains the following fields: Address (with a DHCP checkbox), MAC Address (00:08:18:00:07:0b), IP Address (192.168.1.200), Subnet Mask (255.255.255.0), Gateway (192.168.1.1), Password, HTTP Port (80), and VNP Port (1234). There are OK and Cancel buttons at the bottom.



- È possibile configurare le impostazioni dell'IP statico solo se la casella di controllo DHCP è deselezionata.

Se si utilizza un router a banda larga

- IP Address : Inserire un indirizzo compreso nell'intervallo di IP fornito dal router a banda larga.

es) 192.168.1.2~254,
192.168.0.2~254,
192.168.XXX.2~254

- Subnet Mask : La **<Subnet Mask>** del router a banda larga sarà la **<Subnet Mask>** del decoder video di rete.
- Gateway: Il **<Local IP Address>** del router a banda larga sarà il **<Gateway>** del decoder video di rete.

The 'Setup' dialog box has tabs for Setup, Wireless, Security, Access Restrictions, and Applications & Gaming. Under the Setup tab, there is an 'Internet Connection Type' dropdown set to 'Automatic Configuration - DHCP'. Below this are fields for Router Name, Host Name, Domain Name, MTU (set to Manual), and Size (1400). At the bottom, there is a 'Network Setup' section with 'Router IP' fields for Local IP Address (192.168.1.1) and Subnet Mask (255.255.255.0).



- Le impostazioni possono differire a seconda del modello di router a banda larga collegato. Per ulteriori informazioni, consultare il manuale utente del router.

Se non si usa un router a banda larga

Per l'impostazione di **<IP Address>**, **<Subnet Mask>** e **<Gateway>**, contattare l'amministratore di rete.

4. Inserire nel riquadro **<Port>** le informazioni necessarie.

- HTTP Port : È utilizzata per accedere al dispositivo di rete utilizzando il browser Internet (impostazione predefinita: 80). Utilizzare il pulsante di selezione per modificare il valore della porta HTTP.
- VNP Port : È utilizzata per controllare il trasferimento video da una videocamera di rete o da un encoder. La porta VNP del decoder video di rete non ha bisogno di essere configurata. Il valore predefinito è 1234, che non deve essere modificato.

This is a duplicate of the 'Manual Setting' dialog box shown in the first image, containing fields for Address, MAC Address, IP Address, Subnet Mask, Gateway, Password, HTTP Port, and VNP Port.

5. Inserire la password.

Questa è la password di accesso per l'utente "**admin**" che accede al dispositivo di rete.

L'impostazione predefinita è "**4321**".



- La password predefinita è esposta agli attacchi degli hacker, pertanto si consiglia di cambiare password dopo l'installazione del prodotto.

Si ricorda che la responsabilità per problemi di sicurezza o altro genere derivanti dal non aver cambiato la password è a carico dell'utente.

6. Fare clic su [OK].

La configurazione manuale della rete viene completata.

Se il decoder video di rete viene collegato a un router a banda larga

Configurare separatamente le impostazioni relative all'IP e le impostazioni relative alla porta.

Categoria		Decoder 1	Decoder 2
Impostazioni relative all'IP	IP Address	192.168.1.200	192.168.1.201
	Subnet Mask	255.255.255.0	255.255.255.0
	Gateway	192.168.1.1	192.168.1.1
Impostazioni relative alla porta	HTTP Port	8080	8081



- Se per <HTTP Port> è stato impostato un valore diverso da 80, è necessario inserire il numero di <Porta> nella barra degli indirizzi del browser Internet prima di poter accedere al decoder video di rete.

es) <http://indirizzo IP: Porta HTTP>

<http://192.168.1.200:8080>

connessione di rete e impostazione

Configurazione automatica della rete

Eseguire <IP Installer_vX.XX.exe> per visualizzare l'elenco di ricerca dei dispositivi di rete. Al primo avvio, sia [Auto Set] che [Manual Set] sono disattivati.

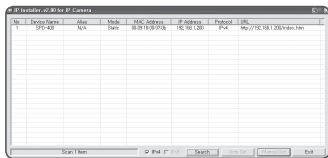


- Nei dispositivi di rete trovati con impostazione IPv6, questi tasti sono disabilitati dato che le videocamere non supportano questa funzione.

1. Selezionare un dispositivo di rete dai risultati della ricerca.

Cercare l'indirizzo MAC (Ethernet) posto sulla parte posteriore del dispositivo di rete.

I tasti [Auto Set] e [Manual Set] sono entrambi attivati.



2. Fare clic su [Auto Set].

Viene visualizzata la finestra di dialogo per l'impostazione automatica. <IP Address>, <Subnet Mask> e <Gateway>, vengono impostate automaticamente.

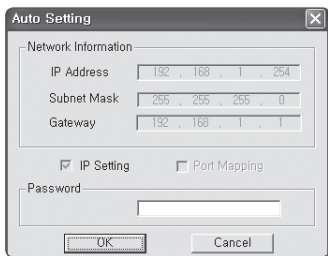
3. Inserire la password.

Questa è la password di accesso per l'utente "admin" che accede al decoder video di rete.

L'impostazione predefinita è "4321".

- La password predefinita è esposta agli attacchi degli hacker, pertanto si consiglia di cambiare password dopo l'installazione del prodotto.

Si ricorda che la responsabilità per problemi di sicurezza o altro genere derivanti dal non aver cambiato la password è a carico dell'utente.



4. Fare clic su [OK].

La configurazione automatica della rete viene completata.

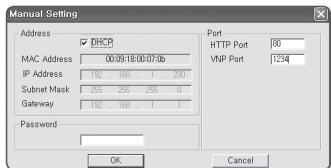
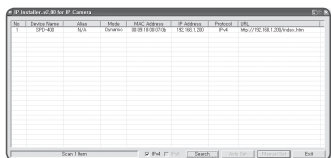
CONFIGURAZIONE IP DINAMICO

Configurazione dell'ambiente dell'IP dinamico

- Esempio di ambiente dell'IP dinamico
 - Se a un router a banda larga con un dispositivo di rete collegato è assegnato un indirizzo IP da parte del server DHCP
 - Il dispositivo di rete è collegato direttamente a un modem DHCP
 - Se gli IP sono assegnati dal server DHCP interno tramite LAN

Selezione dell'IP dinamico

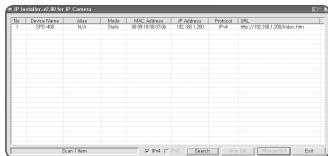
1. Da un PC locale, eseguire <IP Installer> per visualizzare l'elenco di dispositivi di rete a cui è assegnato <Dynamic IP>.
2. Selezionare un dispositivo di rete dell'elenco e fare clic su [Manual Set] per selezionare il <Dynamic IP> del dispositivo di rete. Deselezionando <DHCP>, è possibile cambiare l'IP in <Static>.



connessione di rete e impostazione

COLLEGAMENTO AL DISPOSITIVO DI RETE DA UN PC LOCALE CONDIVISO

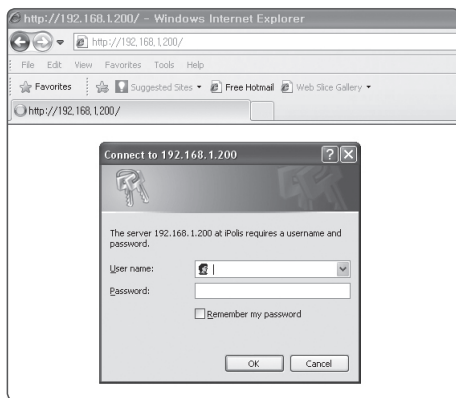
1. Eseguire l'IP Installer.
Cerca i dispositivi di rete collegati e li visualizza come elenco.
2. Fare doppio clic sul dispositivo di rete desiderato per collegarlo.
Il browser Internet viene avviato e si collega al dispositivo di rete.



- È anche possibile accedere alla videocamera digitando l'indirizzo IP del dispositivo di rete trovato nella barra degli indirizzi del browser Internet

ACCESSO AL DECODER VIDEO DI RETE

Caso normale



1. Avviare il browser Internet.
2. Inserire nel campo dell'indirizzo l'indirizzo IP del decoder video di rete
es) • Indirizzo IP (IPv4): 192.168.1.200
→ http://192.168.1.200 - si apre la finestra di dialogo di accesso.
• Indirizzo IP (IPv6): 2001:0230:abcd:ffff:0000:0000:ffff:1111
→ http://[2001:230:abcd:ffff::ffff:1111] - si apre la finestra di dialogo di accesso.

Se la porta HTTP è diversa da 80

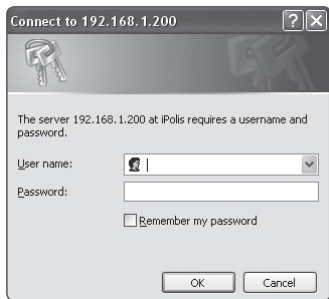
1. Avviare il browser Internet.
2. Inserire nel campo dell'indirizzo l'indirizzo IP e il numero della porta HTTP del decoder video di rete.
es) Indirizzo IP: 192.168.1.200:HTTP numero di porta (8080)
→ http://192.168.1.200:8080 - si apre la finestra di dialogo di accesso.

Visualizzatore Web

LOGIN

L'ID utente predefinito è **"admin"**, e la password predefinita è **"4321"**.

1. Inserire **"admin"** nella casella **<User Name>**.
2. Inserire **"4321"** nella casella **<Password>**.
Se la password viene cambiata, inserire la nuova password.
3. Fare clic su **[OK]**.
Una volta effettuato l'accesso viene visualizzata la schermata di configurazione del decoder video di rete.



- Per motivi di sicurezza, assicurarsi di cambiare la password in **<Sistema>** - **<Utente>**.
L'ID amministratore, **"admin"**, è fisso e non può essere cambiato.

- La password predefinita è esposta agli attacchi degli hacker, pertanto si consiglia di cambiare password dopo l'installazione del prodotto.
Si ricorda che la responsabilità per problemi di sicurezza o altro genere derivanti dal non aver cambiato la password è a carico dell'utente.
- Se si attiva l'opzione **"Remember my password"** dopo aver completato l'inserimento, dalla volta successiva l'accesso avviene automaticamente, senza la richiesta di inserire le informazioni di accesso.



- La qualità video sarà al massimo se la dimensione dello schermo è al 100%. Riducendo il formato si rischia di tagliare l'immagine sui bordi.

schermata di configurazione

CONFIGURAZIONE

È possibile configurare le impostazioni di audio e video, rete, eventi e sistema del decoder video di rete da remoto.

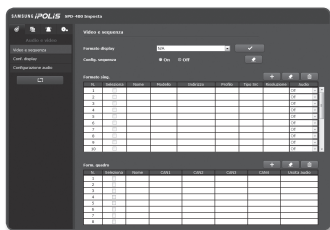


- A seconda della versione del firmware della videocamera/encoder di rete, la registrazione di questi dispositivi al decoder video di rete potrebbe non riuscire o non essere eseguita in modo corretto. Visitare www.samsungtechwin.com per scaricare e aggiornare il firmware più recente.

CONFIGURAZIONE DI AUDIO E VIDEO

Video e sequenza

1. Dal menu di configurazione, selezionare la scheda **<Audio e video ()>**.
2. Selezionare **<Video e sequenza>**.
3. Fare clic sul campo di inserimento di ogni elemento e inserire/selezionare il valore desiderato.
 - **Formato display** : Selezionare il formato desiderato per la schermata di monitoraggio dal formato singolo o quadro.
 - **Config. sequenza** : Scegliere se usare la sequenza di monitoraggio automatica e selezionare il formato e il tempo di commutazione del formato ordinato in sequenza.
 - La schermata passa automaticamente attraverso i formati assegnati in base al tempo di commutazione configurato nelle impostazioni della sequenza. È possibile selezionare e ordinare in sequenza fino a 10 formati singoli e quadro.
 - **Formato sing.** : È possibile aggiungere una videocamera/encoder nella rete o modificare/cancellare i formati singoli registrati.
 - Questa è l'unità di base per visualizzare i formati per la videocamera o l'encoder di rete collegati al decoder video di rete.
Dopo aver aggiunto un formato singolo videocamera/encoder di rete, selezionare il nome della videocamera del layout singolo aggiunto per visualizzare il video della videocamera o dell'encoder di rete nella schermata di monitoraggio.
È possibile aggiungere fino a 64 videocamere o encoder di rete.
 - **Form. quadro** : È possibile comporre, modificare o eliminare un formato in 4 parti selezionando i formati singoli aggiunti.
 - Comporre un formato quadro selezionando i formati singoli della videocamera o dell'encoder di rete per visualizzare la schermata monitoraggio in 4 parti.
Assegnare i formati singoli aggiunti delle videocamere o degli encoder di rete al formato quadro e selezionare il formato quadro composto per visualizzare la schermata di monitoraggio in 4 parti.
È possibile aggiungere fino a 8 formati quadro.



schermata di configurazione

Per aggiungere un formato singolo

1. Fare clic sul tasto **[Agg video (+)]**.
2. Inserire le informazioni della videocamera o encoder di rete.
3. Inserire l'indirizzo IP o DDNS URL del dispositivo da aggiungere nel campo **<Indirizzo>**.
 - È possibile inserire fino a 64 lettere; l'elenco dei formati visualizza fino a 9 lettere, le restanti sono sostituite da <...>.
4. Inserire ID e password per il dispositivo che deve essere aggiunto.
5. Fare clic su **[Importa proprietà (📄)]** per prelevare le informazioni sul dispositivo da collegare.
 - Impossibile aggiungere una videocamera che non ha nessun profilo.

Agg video

Protocollo: ☐ Samsung ☒ AXIS

Indirizzo:

Porta VNP:

Porta HTTP:

ID:

Password:

N. modello:

Nome telecam.:

Profilo:

Tipo Src:

Risoluzione:

6. Inserire <Nome telecam.> dopo che vengono visualizzate le informazioni ricavate.

- Non inserire spazi vuoti nel nome della videocamera.
- È possibile inserire fino a 15 lettere; l'elenco dei formati visualizza fino a 7 lettere, le restanti sono sostituite da <...>.

7. Selezionare un profilo.



- Se si cambia la proprietà del profilo telecamera dopo averla selezionata, il video potrebbe non essere visualizzato. In questi casi, sul monitor appare il messaggio “**Not Decodable**”.

8. Fare clic sul tasto **[Aggiungi (+)]**.



- È possibile aggiungere fino a 64 formati.
- Fare clic su **[Impostazione Cam. ()]** per visualizzare un browser per accedere alla pagina web della videocamera aggiunta.

Risoluzioni disponibili per il formato singolo

CODEC	H.264	MPEG-4	MJPEG
Formato singolo	1920x1080p ~ 320x240	4CIF ~ 320x240	1280x720p ~ 320x240 (eccetto 800x600)

schermata di configurazione

Per modificare il formato esistente

1. Fare clic sulla casella di controllo per selezionare un dispositivo aggiunto.
2. Modificare le informazioni esistenti.
 - Notare che non è possibile modificare i campi **<Protocollo>** e **<Indirizzo>**.
3. Fare clic su **[Salva ()]**.
4. Per annullare, fare clic su **[Annulla ()]**.

Per eliminare il formato esistente

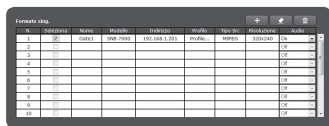
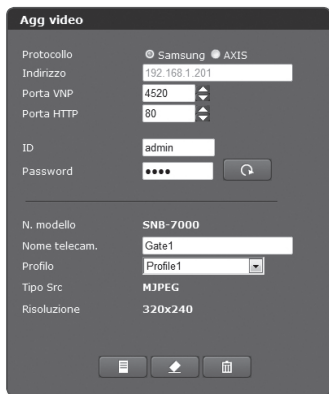
1. Fare clic sulla casella di controllo per selezionare un dispositivo aggiunto.
2. Fare clic su **[Elimina ()]** in alto nell'elenco dei formati.
3. Quando viene visualizzato un messaggio di conferma, fare clic su **[OK]**.



- Non è possibile modificare o eliminare un formato utilizzato da un **<Form. quadro>** o in **<Config. Sequenza>** o attualmente visualizzato nella schermata di monitoraggio; se si prova a modificarlo o a eliminarlo, viene visualizzato un messaggio di conferma.

Per impostare l'audio per il formato singolo aggiunto

1. Dall'elenco dei layout singoli aggiunti, impostare l'audio su **<On>** o **<Off>** secondo le proprie preferenze.
 - Per un dispositivo configurato per emettere segnali audio, non è possibile passare da **<Off>** a **<On>** in modo formato quadro. Se si tenta questa operazione sullo schermo appare un messaggio di conferma.
 - L'audio può essere selezionato solo se l'uscita audio del dispositivo è impostata su **<On>** nella sua configurazione formato singolo.



N.	Sequenza	Nome	Modello	Indirizzo	Profilo	Tipo Src	Risoluzione	Audio
1	☐	Gate1	SNB-7000	192.168.1.201	Profile1	MJPEG	320x240	On
2	☐							Off
3	☐							Off
4	☐							Off
5	☐							Off
6	☐							Off
7	☐							Off
8	☐							Off
9	☐							Off
10	☐							Off

Per aggiungere un formato quadro

1. Fare clic su **[Agg form quadro (+)]**.
2. Selezionare i dispositivi dai formati singoli aggiunti da assegnare ad ogni canale.
3. Inserire **<Nome formato>**.
 - È possibile inserire fino a 15 lettere; l'elenco dei formati visualizza fino a 7 lettere, le restanti sono sostituite da <...>.
4. Selezionare il canale di uscita audio del formato quadro dai 4 canali assegnati. È possibile selezionare un dispositivo se l'audio del dispositivo è impostato su **<On>** nel formato singolo.
5. Fare clic su **[Aggiungi (+)]**.
 - È possibile aggiungere fino a 8 formati quadro. Notare che un formato singolo non può essere assegnato più volte allo stesso formato quadro. Un formato singolo può tuttavia essere assegnato a più formati quadro.



Risoluzioni disponibili per i formati quadro

Alcune risoluzioni potrebbero non essere supportate dal formato quadro del decoder video di rete, a seconda del CODEC utilizzato.

Se si seleziona una risoluzione non supportata viene visualizzato un messaggio di errore.

Prima di effettuare l'operazione di aggiunta vedere le risoluzioni disponibili elencate di seguito.

CODEC	H.264	MPEG-4	MJPEG
Formato quadro	1280x720p ~ 320x240 (eccetto 800x600)	4CIF ~ 320x240	1280x720p ~ 320x240 (eccetto 800x600)

schermata di configurazione



- Con risoluzione video in modo formato quadro inferiore a 960x540, nello schermo ripartito ogni video viene centrato se i video in tutti e 4 i canali hanno la stessa risoluzione. Al momento, i video con risoluzione 320x240 e 352x240 vengono ingranditi rispettivamente a 640x480 e 704x480.



- Nel modo a quattro, la riproduzione video potrebbe non essere fluida se la quantità totale del traffico di dati ricevuto da 4 telecamere supera 40 Mbps.



<Nella seconda schermata è presente un video con risoluzione inferiore a 960x540>

Per modificare un formato quadro

- Selezionare la casella di selezione del formato desiderato dall'elenco.
- Effettuare le modifiche nel canale assegnato o modificare il nome del formato.
- Fare clic su **[Salva ()]**.
- Per annullare, fare clic su **[Annulla ()]**.

Per eliminare un formato quadro

- Selezionare la casella di selezione del formato desiderato dall'elenco.
- Fare clic su **[Elimina ()]**.
- Quando viene visualizzato un messaggio di conferma, fare clic su **[OK]**.



- Non è possibile modificare o eliminare un formato QUADRO compreso in **<Config. Sequenza>** o attualmente visualizzato nella schermata di monitoraggio; se si prova a modificarlo o a eliminarlo, viene visualizzato un messaggio di conferma.

Per impostare una sequenza

1. Premere [**Config. Sequenza** ()].
2. Selezionare i formati nell'ordine in cui si desidera visualizzarli.
3. Inserire l'intervallo della transizione del formato.
4. A operazione ultimata, fare clic su [**Applica** ()].
5. Impostare la configurazione della sequenza su **<On>**.
I formati selezionati vengono visualizzati nell'ordine specificato, cambiandoli nell'intervallo specificato.



Per selezionare il formato che deve essere visualizzato sul monitor

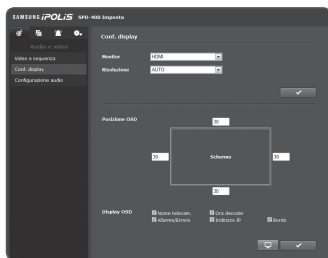
È possibile impostare la visualizzazione di un formato su un monitor collegato.

1. Fare clic sull'elenco "Formato display" per visualizzare i formati disponibili. Selezionare un formato da visualizzare sulla schermata.
2. A operazione ultimata, fare clic su [**Applica** ()].
 - Se la configurazione della sequenza è impostata su **<ON>**, è disabilitata la casella di elenco **<Formato display>**.



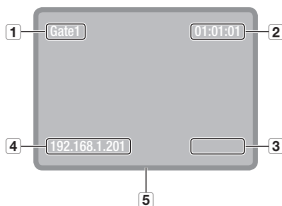
Conf. display

1. Dal menu di configurazione, selezionare la scheda **<Audio e video ()>**.
2. Fare clic su **<Conf. display>**.
3. Fare clic sul campo di inserimento di ogni elemento e inserire/selezionare il valore desiderato.
 - Monitor: Seleziona il tipo di monitor utilizzato per visualizzare il video.
 - Risoluzione: Seleziona la risoluzione del monitor.
 - Quando è selezionato **<CVBS>**, il menu passa al **<tipo CVBS>**.



schermata di configurazione

- Posizione OSD : Seleziona la posizione del menu OSD.
Se si cambia il numero delle posizioni OSD questo permette di impostare il numero in base all'intera schermata.
- Display OSD : Seleziona i tipi di OSD che devono essere visualizzati sul monitor.
 - 1 Nome telecam. : Mostra il nome della videocamera utilizzato per la registrazione del formato.
 - 2 Ora decoder : Mostra l'ora impostata sul decoder.
 - 3 Allarme/Errore : Mostra sul monitor gli allarmi e gli errori quando si verificano.
 - 4 Indirizzo IP : Mostra l'indirizzo IP della videocamera.
 - 5 Bordo : Delimita ogni schermata della videocamera con una linea di bordo.
- Anteprima () : Visualizza un'anteprima delle impostazioni correlate all'OSD e le applica se confermate.
L'applicazione delle modifiche di configurazione OSD non influenza le impostazioni del monitor.

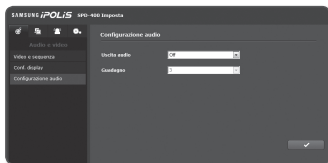


4. A operazione ultimata, fare clic su **[Applica ()]**.

Configurazione audio

È possibile configurare le impostazioni audio di ingresso e uscita dei dispositivi collegati al decoder video di rete.

1. Dal menu di configurazione, selezionare la scheda **<Audio e video ()>**.
2. Fare clic su **<Configurazione audio>**.
3. Regolare i livelli I/O dell'audio in base alle proprie preferenze.
 - Uscita audio : Sceglie se utilizzare o meno l'audio e il metodo di uscita.
 - Guadagno : È attivato quando **<Line out>** è selezionato, e quando è impostato il valore.



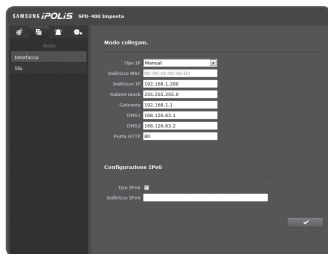
-  Il segnale audio viene emesso solo se il dispositivo collegato supporta l'ingresso audio ed è attivato.
- Per selezionare l'uscita audio HDMI, la configurazione del monitor del display deve essere impostata su HDMI.
- Se il volume dell'audio in entrata è molto alto, il decodificatore dell'audio potrebbe venire distorto. Aggiustare gentilmente il livello dell'audio in entrata.

4. A operazione ultimata, fare clic su **[Applica ()]**.

CONFIGURAZIONE DI RETE

Interfaccia

1. Dal menu di configurazione, selezionare la scheda **<Rete ()>**.
2. Fare clic su **<Interfaccia>**.
3. Impostare **<Modo collegam.>** e **<Configurazione IPv6>** secondo necessità.
 - Tipo IP : Selezionare un tipo di connessione IP.
 - Manual : Specificare l'indirizzo IP, la Subnet Mask, il Gateway, DNS1 e DNS2.
 - DHCP : Specificare DNS1 e DNS2.
 - Se si imposta su **<Manual>**, è necessario specificare IP, SubnetMask, Gateway, DNS 1 e 2 manualmente.
 - Indirizzo MAC : Mostra l'indirizzo MAC del decoder video di rete.
 - Indirizzo IP : Mostra l'indirizzo IP corrente.
 - Subnet mask : Visualizza la **<Subnet Mask>** per l'IP impostato.
 - Gateway : Visualizza il **<Gateway>** per l'IP impostato.
 - DNS1/DNS2 : Mostra l'indirizzo del server DNS (Domain Name Service).
 - Porta HTTP : Porta HTTP utilizzata per accedere al decoder video di rete attraverso il browser Web. Il valore predefinito è 80 (TCP).
 - Uso IPv6 : Specifica l'uso di IPv6.
 - Indirizzo IPv6 : Permette di ottenere l'indirizzo IPv6 per accedere alla rete IPv6.
4. A operazione ultimata, fare clic su **[Applica ()]**.

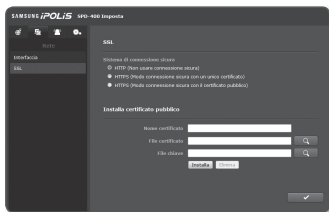


schermata di configurazione

SSL

È possibile selezionare un sistema di connessione sicuro o installare il certificato pubblico.

1. Dal menu di configurazione, selezionare la scheda **<Rete ([Rete])>**.
2. Fare clic su **<SSL>**.
3. Selezionare un sistema di connessione sicuro.
 - Quando si accede al decoder video di rete utilizzando il modo HTTPS sicuro, inserire l'indirizzo IP nel campo dell'indirizzo come: `https://<IP_encoder di rete>`.



4. Cercare e aggiungere un certificato per il decoder video di rete.

Per installare il certificato sul decoder video di rete, è necessario digitare il nome del certificato (può essere assegnato arbitrariamente dall'utente), il file del certificato emesso dall'autorizzazione e un file chiave.

 - La voce **<HTTPS(Modo connessione sicura con il certificato pubblico)>** è attiva soltanto se è installato un certificato pubblico.
5. A operazione ultimata, fare clic su **[Applica ([OK])]**.

Installazione del certificato

1. Inserire il nome del certificato.
2. Selezionare il file del certificato desiderato e il suo file chiave, quindi fare clic su **[Installa ([OK])]**.

Eliminazione di un certificato

1. Fare clic su **[Elimina ([OK])]**.
2. Per eliminare un certificato pubblico, accedere al decoder video di rete in modo **<HTTP (Non usare connessione sicura)>** o **<HTTPS (Modo connessione sicura con un unico certificato)>**.

CONFIGURAZIONE EVENTO

Ingresso allarme

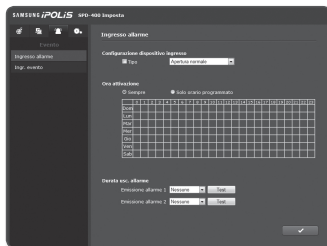
È possibile impostare il tipo di ingresso allarme, la durata e il tipo di azione della porta di ingresso allarme del decoder video di rete.

1. Dal menu di configurazione, selezionare la scheda **<Evento (🔔)>**.

2. Fare clic su **<Ingresso allarme>**.

3. Selezionare il tipo di dispositivo di ingresso.

- Tipo
 - Apertura normale : Normalmente è aperto; se è chiuso, viene generato un allarme.
 - Chiusura normale : Normalmente è chiuso; se è aperto, viene generato un allarme.



4. Specificare **<Ora attivazione>**.

- Sempre : Controllare sempre se si verifica un allarme. Si attiva nel modo attivato quando si verifica l'allarme.
- Solo orario programmato : Controllare se si verifica un allarme in un giorno specificato della settimana, per il periodo di tempo specificato. Si attiva nel modo attivato quando si verifica l'allarme.

5. Impostare il tempo di commutazione dell'uscita di allarme se si verifica un allarme.

- Emissione allarme : Specificare l'ora di uscita allarme nella configurazione di ingresso dell'allarme.
 - Se la durata dell'uscita allarme è impostata su **<Sempre>**, l'allarme continua a funzionare fino a quando non viene premuto il tasto di riconoscimento allarme, come illustrato nella pagina Audio & Video.
- Test : Effettua un test di allarme per il dispositivo di uscita allarme collegato.

6. A operazione ultimata, fare clic su **[Applica (✔)]**.

schermata di configurazione

Ingr. evento

È possibile impostare la durata e il tipo di azione dell'allarme della telecamera o dell'encoder di rete.

1. Dal menu di configurazione, selezionare la scheda **<Evento ([Icona])>**.

2. Fare clic su **<Ingr. evento>**.

3. Specificare un dispositivo di ingresso evento.

- Configurazione dispositivo ingresso

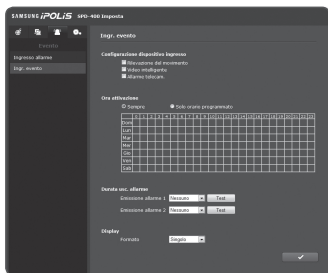
- Rilevazione del movimento :

Riconosce come un allarme un movimento rilevato dal dispositivo collegato.

- Video intelligente: Riconosce come

un allarme un evento di analisi video intelligente rilevato dal dispositivo collegato.

- Allarme telecam. : Riconosce come un allarme un evento di ingresso sensore dal dispositivo collegato.



- Azionabile solo quando la videocamera registrata per il formato supporta la funzione applicabile ed è attivata.

4. Specificare l'ora di attivazione.

- Per impostare **<Ora attivazione>**, vedere la sezione **"Ingresso allarme"**. (pagina 41)

5. Impostare la **<Durata usc. allarme>** per ciascun allarme.

6. Selezionare **<Formato>** per ogni video del dispositivo su un evento.

Se è selezionato il modo **<Quadro>** e il layout singolo desiderato è impostato su due formati quadro, viene selezionato e visualizzato il formato quadro con numero di formato più basso.

Quando si verifica un evento, il formato selezionato per l'evento viene visualizzato insieme alla al bordo dell'allarme e al messaggio di allarme in base alla configurazione dello schermo specificata, fino a quando il tasto di riconoscimento allarme è premuto nella pagina Audio & Video.

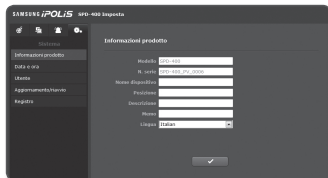
Quando viene premuto il tasto di riconoscimento allarme, la schermata ritorna al formato precedente all'evento.

7. A operazione ultimata, fare clic su **[Applica ([Icona])]**.

CONFIGURAZIONE DEL SISTEMA

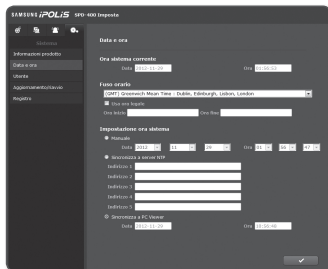
Informazioni sul prodotto

1. Dal menu di configurazione, selezionare la scheda <**Sistema** ()>.
2. Fare clic su <**Informazioni prodotto**>.
3. Verificare le informazioni sul decoder video di rete oppure indicare i dettagli a seconda dell'ambiente di rete.
 - Nome dispositivo : Inserire il nome del decoder video di rete.
 - Posizione : Descrivere la posizione del decoder video di rete installato.
 - Descrizione : Inserire ulteriori informazioni dettagliate sul decoder video di rete installato.
 - Memo : Fornire una spiegazione dell'encoder di rete per facilitare la comprensione.
 - Lingua : Selezionare la lingua preferita per i menu dell'encoder di rete e l'OSD del visualizzatore Web.
4. A operazione ultimata, fare clic su [**Applica** ()].



Data e ora

1. Dal menu di configurazione, selezionare la scheda <**Sistema** ()>.
2. Fare clic su <**Data e ora**>.
3. Impostare l'ora del sistema del decoder video di rete.
 - Ora sistema corrente : Visualizza le impostazioni dell'ora corrente del sistema.
 - Fuso orario : Specificare il fuso orario locale in base all'ora GMT.
 - Usa ora legale : Se la regione della posizione installata può utilizzare DST, è possibile scegliere se utilizzarla o meno.



schermata di configurazione

- Impostazione ora sistema : Specificare la data e l'ora da applicare al sistema.
 - Manuale: Specificare manualmente l'ora.
 - Sincronizza a server NTP : Sincronizzazione con l'ora dell'indirizzo server specificato.
 - Sincronizza a PC Viewer : Sincronizzazione con l'ora del PC collegato.

4. A operazione ultimata, fare clic su **[Applica ()]**.



- Se si seleziona **<Sincronizza a PC Viewer>**, il fuso orario standard impostato deve corrispondere al fuso orario impostato sul PC.

Utente

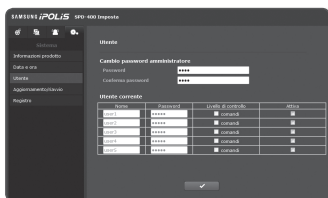
1. Dal menu di configurazione, selezionare la scheda **<Sistema ()>**.

2. Fare clic su **<Utente>**.

3. Indicare le informazioni necessarie sull'utente.

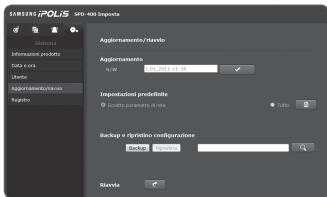
- Cambio password amministratore:
Cambiare la password corrente dell'amministratore.
 - La password predefinita è esposta agli attacchi degli hacker, pertanto si consiglia di cambiare password dopo l'installazione del prodotto. Si ricorda che la responsabilità per problemi di sicurezza o altro genere derivanti dal non aver cambiato la password è a carico dell'utente.
- Utente corrente: È possibile cambiare le informazioni sull'utente e regolare il livello di permesso per un utente impostato su **<Attivo>**.
 - Comandi : Se selezionato, è possibile utilizzare tutte le voci di menu eccetto l'amministratore dell'account utente.
 - Attiva : Attiva l'account utente.

4. A operazione ultimata, fare clic su **[Applica ()]**.



Aggiornamento/riavvio

1. Dal menu di configurazione, selezionare la scheda <**Sistema** ()>.
2. Fare clic su <**Aggiornamento/riavvio**>.
3. Selezionare la voce desiderata e impostarla come richiesto.
 - **Aggiornamento** : Esegue l'aggiornamento del sistema.
 - **Impostazioni predefinite** : Ripristina il sistema alle impostazioni predefinite.
 - Eccetto parametro di rete: Ripristina tutte le impostazioni ad eccezione dei parametri di rete.
 - Tut.: Ripristina tutte le impostazioni compresi i parametri di rete.
 - **Backup e ripristino configurazione** : Esegue il backup delle impostazioni di sistema correnti prima di eseguire il processo di ripristino. Il sistema viene automaticamente riavviato dopo il backup o il ripristino.
 - **Riavvia** : Riavvia il sistema.

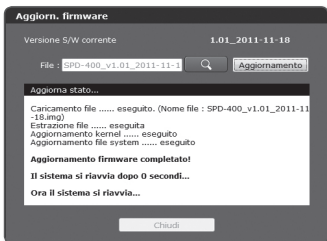


Per eseguire l'aggiornamento

1. Fare clic su [].
2. Fare clic su [] e specificare il file da aggiornare.
3. Fare clic su [**Aggiornamento**].
4. Appare la finestra di dialogo "Aggiorna stato" con la barra di progressione in basso.



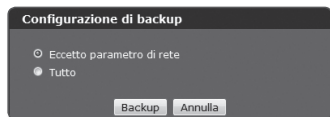
- Se si termina forzatamente il processo di aggiornamento, l'aggiornamento non viene completato correttamente.



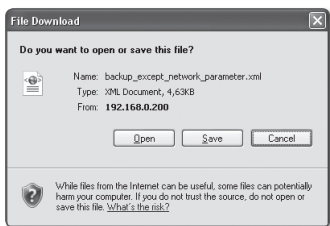
schermata di configurazione

Per salvare le impostazioni correnti e ripristinare le impostazioni di backup

1. Fare clic su **[Backup]**.
Viene visualizzata la finestra di dialogo Salva come.



2. Specificare il nome del percorso di backup, quindi fare clic su **[Save]**.
Il file di backup viene salvato al percorso specificato in formato ".xml".
3. Per ripristinare le impostazioni da un backup, selezionare il file di backup.
4. Fare clic su **[Ripristina]**.
Una volta completata l'operazione di ripristino, il sistema viene riavviato.

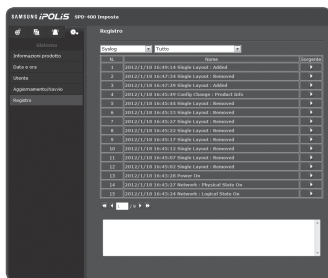


Registro

È possibile controllare il registro di sistema o il registro eventi.

1. Dal menu di configurazione, selezionare la scheda **<Sistema ()>**.
2. Fare clic su **<Registro>**.
3. Selezionare un tipo di registro.

- Syslog : È possibile verificare i registri di sistema in cui sono registrate eventuali modifiche di sistema, incluse le informazioni sull'ora.
- Evtlog : È possibile controllare i registri eventi, incluse le informazioni sull'ora.



4. Dall'elenco di registri di destra, selezionare la voce da cercare.
 - Se si seleziona **<Tutto>** nell'elenco a discesa in alto a sinistra, vengono visualizzati tutti i registri per il tipo di registro applicabile.
5. Se sulla pagina non vengono visualizzati tutti i registri disponibili, utilizzare i tasti in fondo per passare alla voce precedente o successiva o all'ultima voce.



- Per visualizzare i dettagli di un registro, fare clic su **[Sorgente ()]** nella colonna di destra del registro; le informazioni sul registro appaiono nel riquadro in fondo.
- Ogni pagina visualizza 15 registri con l'ultimo visualizzato in alto.
- L'elenco di registri eventi/sistema può contenere fino a 1000 registri; oltre questa cifra, i registri vengono cancellati a partire dal più vecchio ogni volta che viene creato un nuovo registro.

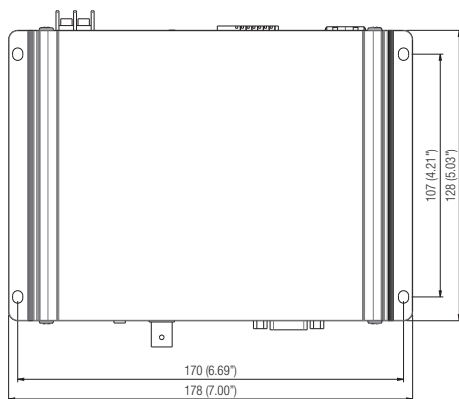
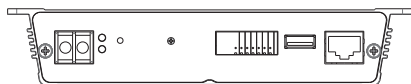
SPECIFICA

Elementi		Descrizione
Uscita video	U scita video	1) HDMI / VGA : Max 1920x1080p (la stessa risoluzione di uscita per HDMI, VGA) 1920x1080p, 1680x1050, 1600x900, 1440x900, 1280x1024, 1280x720p, 1024 x 768 2) CVBS : NTSC : 1,0 Vpp / 75Ω composita 704x480 PAL : 1,0 Vpp / 75Ω composita 704x576 3) Selez. da HDMI/VGA, CVBS
	Latenza video	1) H.264 : 3,5 secondi al massimo 2) MPEG-4 : 2 secondi al massimo 3) MJPEG : 2 secondi al massimo
	Trigger evento	Ingresso allarme, ingresso evento telecamera di rete
	I/O Allarme	Input 1x / Uscita 2x (relè)
Rete	Ethernet	RJ-45 (10/100/1000BASE-T)
	Formato di compressione video	H.264, MPEG-4, MJPEG
	Risoluzione	1) H.264 - Visualizzazione singola: 1920x1080p ~ 320x240 - Visualizzazione quadro: 1280x720p ~ 320x240 (eccetto 800x600) 2) MPEG-4 : - Visualizzazione singola: 4CIF ~ 320x240 - Visualizzazione quadro: 4CIF ~ 320x240 3) MJPEG : - Visualizzazione singola: 1280x720p ~ 320x240 (eccetto 800x600) - Visualizzazione quadro: 1280x720p ~ 320x240 (eccetto 800x600) 1920x1080p, 1280X1024, 1280X720p, 704x576, 704x480, 640x480, 352x288, 352x240, 320x240
	Frequenza max fotogrammi	Max 30 fps in visualizzazione singola, max 120fps in 4x (640x480) max 100fps in 4x4 CIF, max 60fps in 4x720p (quando l'audio è disattivato)
	Display	Formato singolo, formato quadro

Elementi		Descrizione
Rete	I/O audio	1 uscita linea
	Formato di compressione audio	G.711, G.726
	IP	IPv4, IPv6
	Protocollo	TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), NTP, HTTP, DHCP, ICMP, IGMP, ARP, SSL, DNS
	Sicurezza	Autenticazione HTTPS(SSL) Registro accessi utente
	Connessioni videocamera	64 videocamere, 8 formati, 10 sequenze
	Conformità all'ONVIF	Non supportato
	Dispositivi supportati	Telecamere IP Samsung(*) Axis : P3301, P3343, P3344, P1311, P1343, P1344, P1346, PTZ215, Q6032, Q7401, Q7404 (versione F/W: 5.x) 1) Stream (Video/Audio live): SVNP 1.2 (AXIS : RTP/RTSP) 2) Controllo/allarme di rete: SVNP 1.2 (AXIS: Non supportato) * Contattare il rivenditore per aggiornamenti sui dispositivi di rete Samsung compatibili.
	Visualizzatore Web	Sistema operativo supportato: Windows XP / VISTA / 7 Browser supportato: Internet Explorer 7.0 o 8.0, Firefox x2.x, 3.x, Chrome, Safari
Caratteristiche ambientali	Temperatura di esercizio / umidità	0 °C ~ +40 °C (+ 32 °F ~ +104 °F) / umidità relativa 0% ~ 90%
Caratteristiche elettriche	Tensione di ingresso	CC 12 V
	Potenza assorbita	Max 10W
Caratteristiche meccaniche	Colore/materiale	Argento / metallo
	Dimensioni (LxPxA)	L178,0 x P34,0 x A128,0mm (L7,00 x P1,33 x A5,03 pollici)
	Peso	530g

PRESENTAZIONE DEL PRODOTTO

Unità: mm (pollici)



RISOLUZIONE DEI PROBLEMI

PROBLEMA	SOLUZIONE
Non è possibile accedere al decoder video di rete con un browser Internet.	• Se il riavvio del decoder video di rete non risolve il problema, tenere premuto [RESET] per circa 5 secondi per resettare le impostazioni del decoder video di rete. • Controllare che tutti i cavi di rete siano collegati correttamente. • Per l'ambiente DHCP, verificare che al decoder video di rete sia assegnato correttamente un indirizzo IP dinamico.
Impossibile collegarsi al sistema mediante un browser a schede di Internet Explorer 7.0.	• Se si cerca di collegarsi al sistema utilizzando un browser a schede, vengono condivise le stesse informazioni cookie, provocando errori nella connessione. Pertanto, invece di utilizzare un browser a schede, aprire una nuova finestra del browser per collegarsi al sistema.
Il programma IP Installer non riesce a trovare il decoder video di rete installato nella rete.	• Disattivare le impostazioni del firewall sul PC, quindi rieffettuare la ricerca dell'encoder di rete.
Sul monitor non compare nessuna visualizzazione.	• Controllare se il monitor è collegato al decoder video di rete e corrisponde con il modo di uscita. • Controllare se il monitor supporta e corrisponde alla risoluzione di uscita del decoder video di rete.
Sullo schermo viene visualizzato solo il logo e non si può passare ad altre schermate.	• Se il riavvio del decoder video di rete non risolve il problema, tenere premuto [RESET] per circa 5 secondi per resettare le impostazioni del decoder video di rete.

OPEN SOURCE ANNOUNCEMENT

Some software components of this product incorporate source code covered under the BSD license as follows.

Component Name	License	License URL
lighttpd 1.4.25	BSD 2.0	http://www.opensource.org/licenses/bsd-license.html
librt 1.20	BSD 1.0	
Live555	GPL 2.1	http://www.opensource.org/licenses/LGPL-2.1

lighttpd is a secure, fast, compliant, and very flexible web-server that has been optimized for high-performance environments. It has a very low memory footprint compared to other webservers and takes care of cpu-load. Its advanced feature-set (FastCGI, CGI, Auth, Output-Compression, URL-Rewriting and many more) make lighttpd the perfect webserver-software for every server that suffers load problems.

Simple Network Management Protocol (SNMP) is an Internet-standard protocol for managing devices on IP networks. It is used mostly in network management systems to monitor the devices attached to the network for conditions that need administrative attention. Net-SNMP is a suite of applications used to implement SNMP v1, SNMP v2c and SNMP v3 using both IPv4 and IPv6.

For more additional information, send email to help.cctv@samsung.com.

Copyright (C) 2004, Kneschke, incremental

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met :

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the 'incremental' nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT OWNER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright (c) 1998-2001 University College London

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, is permitted provided that the following conditions are met :

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgement: This product includes software developed by the Computer Science Department at University College London.
4. Neither the name of the University nor of the Department may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE AUTHORS AND CONTRIBUTORS "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHORS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

LICENSE

Various copyrights apply to this package, listed in various separate parts below. Please make sure that you read all the parts.

Part 1: CMU/UCD copyright notice: (BSD like)

Copyright 1989, 1991, 1992 by Carnegie Mellon University
Derivative Work - 1996, 1998-2000
Copyright 1996, 1998-2000 The Regents of the University of California

All Rights Reserved

Permission to use, copy, modify and distribute this software and its documentation for any purpose and without fee is hereby granted, provided that the above copyright notice appears in all copies and that both that copyright notice and this permission notice appear in supporting documentation, and that the name of CMU and The Regents of the University of California not be used in advertising or publicity pertaining to distribution of the software without specific written permission.

CMU AND THE REGENTS OF THE UNIVERSITY OF CALIFORNIA DISCLAIM ALL WARRANTIES WITH REGARD TO THIS SOFTWARE, INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS. IN NO EVENT SHALL CMU OR THE REGENTS OF THE UNIVERSITY OF CALIFORNIA BE LIABLE FOR ANY SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES OR ANY DAMAGES WHATSOEVER RESULTING FROM THE LOSS OF USE, DATA OR PROFITS, WHETHER IN AN ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.

Part 2: Networks Associates Technology, Inc copyright notice (BSD)

Copyright (c) 2001-2003, Networks Associates Technology, Inc

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the Networks Associates Technology, Inc nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING

NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Part 3: Cambridge Broadband Ltd. copyright notice (BSD)

Portions of this code are copyright (c) 2001-2003, Cambridge Broadband Ltd.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- The name of Cambridge Broadband Ltd. may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Part 4: Sun Microsystems, Inc. copyright notice (BSD)

Copyright © 2003 Sun Microsystems, Inc., 4150 Network Circle, Santa Clara, California 95054, U.S.A.

All rights reserved.

Use is subject to license terms below. This distribution may include materials developed by third parties. Sun, Sun Microsystems, the Sun logo and Solaris are trademarks or registered trademarks of Sun Microsystems, Inc. in the U.S. and other countries. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of the Sun Microsystems, Inc. nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Part 5: Sparta, Inc copyright notice (BSD)

Copyright (c) 2003-2009, Sparta, Inc

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of Sparta, Inc nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Part 6: Cisco/BUPTNIC copyright notice (BSD)

Copyright (c) 2004, Cisco, Inc and Information Network Center of Beijing University of Posts and Telecommunications.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

- Neither the name of Cisco, Inc, Beijing University of Posts and Telecommunications, nor the names of their contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Part 7: Fabasoft R&D Software GmbH & Co KG copyright notice (BSD)

Copyright (c) Fabasoft R&D Software GmbH & Co KG, 2003
oss@fabasoft.com

Author: Bernhard Penz

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- The name of Fabasoft R&D Software GmbH & Co KG or any of its subsidiaries, brand or product names may not be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDER "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDER BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Part 8: Apple Inc. copyright notice (BSD)

Copyright (c) 2007 Apple Inc.

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of Apple Inc. ("Apple") nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY APPLE AND ITS CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL APPLE OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Part 9: ScienceLogic, LLC copyright notice (BSD)

Copyright (c) 2009, ScienceLogic, LLC

All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

- Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
- Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
- Neither the name of ScienceLogic, LLC nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE COPYRIGHT HOLDERS OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

GPL/LGPL SOFTWARE LICENSE

The software included in this product contains copyrighted software that is licensed under the GPL/LGPL. You may obtain the complete Corresponding Source code from us for a period of three years after our last shipment of this product by sending email to help.cctv@samsung.com

If you want to obtain the complete Corresponding Source code in the physical medium such as CD-ROM, the cost of physically performing source distribution might be charged.

- GPL S/W
 - Base Kernel, Busybox, Sysvinit, dosfstools
 - LGPL S/W
 - glibc, Inetutils
-

GNU GENERAL PUBLIC LICENSE

Version 2, June 1991

Copyright (C)1989, 1991 Free Software Foundation, Inc.
51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change free software-- to make sure the software is free for all its users.

This General Public License applies to most of the Free Software Foundation's software and to any other program whose authors chose to using it. (Some other Free Software Foundation software is covered by the GNU Lesser General Public License instead.) You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price.

Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs ; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the software, or if you modify it.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must give the recipients all the rights that you have.

You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

We protect your rights with two steps :

(1)copyright the software, and (2)offer you this license which gives you legal permission to copy, distribute and/or modify the software.

Also, for each author's protection and ours, we want to make certain that everyone understands that there is no warranty for this free software. If the software is modified by someone else and passed on, we want its recipients to know that what they have is not the original, so that any problems introduced by others will not reflect on the original authors' reputations.

Finally, any free program is threatened constantly by software patents. We wish to avoid the danger that redistributors of a free program will individually obtain patent licenses, in effect making the program proprietary. To prevent this, we have made it clear that any patent must be licensed for everyone's free use or not licensed at all.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

Version 2, June 1991 Copyright (C) 1989, 1991 Free Software Foundation, Inc. 51 Franklin S

0. This License applies to any program or other work which contains a notice placed by the copyright holder saying it may be distributed under the terms of this General Public License.

The "Program", below, refers to any such program or work, and a "work based on the Program" means either the Program or any derivative work under copyright law : that is to say, a work containing the Program or a portion of it, either verbatim or with modifications and/or translated into another language. (Hereinafter, translation is included without limitation in the term "modification".) Each licensee is addressed as "you".

Activities other than copying, distribution and modification are not covered by this License ; they are outside its scope. The act of running the Program is not restricted, and the output from the Program is covered only if its contents constitute a work based on the Program (independent of having been made by running the Program). Whether that is true depends on what the Program does.

1. You may copy and distribute verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty ; and give any other recipients of the Program a copy of this License along with the Program.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Program or any portion of it, thus forming a work based on the Program, and copy and distribute such modifications or your work under the terms of Section 1 above, provided that you also meet all of these conditions :

a) You must cause the modified files to carry prominent notices stating that you changed the files and the date of any change.

- b) You must cause any work that you distribute or publish, that in whole or in part contains or is derived from the Program or any part thereof, to be licensed as a whole at no charge to all third parties under the terms of this License.
- c) If the modified program normally reads commands interactively when run, you must cause it, when started running for such interactive use in the most ordinary way, to print or display an announcement including an appropriate copyright notice and a notice that there is no warranty (or else, saying that you provide a warranty) and that users may redistribute the program under these conditions, and telling the user how to view a copy of this License. (Exception: if the Program itself is interactive but does not normally print such an announcement, your work based on the Program is not required to print an announcement.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Program, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Program, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Program. In addition, mere aggregation of another work not based on the Program with the Program (or with a work based on the Program) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may copy and distribute the Program (or a work based on it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you also do one of the following :
- a) Accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange ; or,
 - b) Accompany it with a written offer, valid for at least three years, to give any third party, for a charge no more than your cost of physically performing source distribution, a complete machine-readable copy of the corresponding source code, to be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange ; or,
 - c) Accompany it with the information you received as to the offer to distribute corresponding source code. (This alternative is allowed only for noncommercial distribution and only if you received the program in object code or executable form with such an offer, in accord with Subsection b. above.)

The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

If distribution of executable or object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place counts as distribution of the source code, even though third parties are not compelled to copy the source along with the object code.

- 4. You may not copy, modify, sublicense, or distribute the Program except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense or distribute the Program is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
- 5. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Program or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Program (or any work based on the Program), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Program or works based on it.
- 6. Each time you redistribute the Program (or any work based on the Program), the recipient automatically receives a license from the original licensor to copy, distribute or modify the Program subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties to this License.
- 7. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Program at all. For example, if a patent license would not permit royalty-free redistribution of the Program by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Program.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply and the section as a whole is intended to apply in other circumstances. It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system, which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice. This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

- 8. If the distribution and/or use of the Program is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Program under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

9. The Free Software Foundation may publish revised and/or new versions of the General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of this License, you may choose any version ever published by the Free Software Foundation.

10. If you wish to incorporate parts of the Program into other free programs whose distribution conditions are different, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

11. BECAUSE THE PROGRAM IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "ASIS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

12. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Programs

If you develop a new program, and you want it to be of the greatest possible use to the public, the best way to achieve this is to make it free software which everyone can redistribute and change under these terms.

To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

one line to give the program's name and an idea of what it does.

Copyright (C)yyyyy name of author

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301, USA.

Also add information on how to contact you by electronic and paper mail. If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69,

Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO

WARRANTY; for details type 'show w'. This is free software, and you are welcome to redistribute it under certain conditions; type 'show c' for details.

The hypothetical commands 'show w' and 'show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than 'show w' and 'show c'; they could even be mouse-clicks or menu items-- whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program 'Gnomovision' (which makes passes at compilers) written by James Hacker.

signature of Ty Coon, 1 April 1989 Ty Coon, President of Vice
This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the **GNU Lesser General Public License** instead of this License.

GNU GENERAL PUBLIC LICENSE

Version 3, 29 June 2007

Copyright © 2007 Free Software Foundation, Inc. <<http://fsf.org/>>

Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

Preamble

The GNU General Public License is a free, copyleft license for software and other kinds of works. The licenses for most software and other practical works are designed to take away your freedom to share and change the works. By contrast, the GNU General Public License is intended to guarantee your freedom to share and change all versions of a program--to make sure it remains free software for all its users.

We, the Free Software Foundation, use the GNU General Public License for most of our software; it applies also to any other work released this way by its authors. You can apply it to your programs, too.

When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for them if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs, and that you know you can do these things.

To protect your rights, we need to prevent others from denying you these rights or asking you to surrender the rights. Therefore, you have certain responsibilities if you distribute copies of the software, or if you modify it: responsibilities to respect the freedom of others.

For example, if you distribute copies of such a program, whether gratis or for a fee, you must pass on to the recipients the same freedoms that you received. You must make sure that they, too, receive or can get the source code. And you must show them these terms so they know their rights.

Developers that use the GNU GPL protect your rights with two steps: (1) assert copyright on the software, and (2) offer you this License giving you legal permission to copy, distribute and/or modify it.

For the developers' and authors' protection, the GPL clearly explains that there is no warranty for this free software. For both users' and authors' sake, the GPL requires that modified versions be marked as changed, so that their problems will not be attributed erroneously to authors of previous versions.

Some devices are designed to deny users access to install or run modified versions of the software inside them, although the manufacturer can do so. This is fundamentally incompatible with the aim of protecting users' freedom to change the software. The systematic pattern of such abuse occurs in the area of products for individuals to use, which is precisely where it is most unacceptable. Therefore, we have designed this version of the GPL to prohibit the practice for those products. If such problems arise substantially in other domains, we stand ready to extend this provision to those domains in future versions of the GPL, as needed to protect the freedom of users.

Finally, every program is threatened constantly by software patents. States should not allow patents to restrict development and use of software on general-purpose computers, but in those that do, we wish to avoid the special danger that patents applied to a free program could make it effectively proprietary. To prevent this, the GPL assures that patents cannot be used to render the program non-free.

The precise terms and conditions for copying, distribution and modification follow.

TERMS AND CONDITIONS

0. Definitions.

"This License" refers to version 3 of the GNU General Public License.

"Copyright" also means copyright-like laws that apply to other kinds of works, such as semiconductor masks.

"The Program" refers to any copyrightable work licensed under this License. Each licensee is addressed as "you". "Licensees" and "recipients" may be individuals or organizations.

To "modify" a work means to copy from or adapt all or part of the work in a fashion requiring copyright permission, other than the making of an exact copy. The resulting work is

called a "modified version" of the earlier work or a work "based on" the earlier work.

A "covered work" means either the unmodified Program or a work based on the Program.

To "propagate" a work means to do anything with it that, without permission, would make you directly or secondarily liable for infringement under applicable copyright law, except executing it on a computer or modifying a private copy. Propagation includes copying, distribution (with or without modification), making available to the public, and in some countries other activities as well.

To "convey" a work means any kind of propagation that enables other parties to make or receive copies. Mere interaction with a user through a computer network, with no transfer of a copy, is not conveying.

An interactive user interface displays "Appropriate Legal Notices" to the extent that it includes a convenient and prominently visible feature that (1) displays an appropriate copyright notice, and (2) tells the user that there is no warranty for the work (except to the extent that warranties are provided), that licensees may convey the work under this License, and how to view a copy of this License. If the interface presents a list of user commands or options, such as a menu, a prominent item in the list meets this criterion.

1. Source Code.

The "source code" for a work means the preferred form of the work for making modifications to it. "Object code" means any non-source form of a work.

A "Standard Interface" means an interface that either is an official standard defined by a recognized standards body, or, in the case of interfaces specified for a particular programming language, one that is widely used among developers working in that language.

The "System Libraries" of an executable work include anything, other than the work as a whole, that (a) is included in the normal form of packaging a Major Component, but which is not part of that Major Component, and (b) serves only to enable use of the work with that Major Component, or to implement a Standard Interface for which an implementation is available to the public in source code form. A "Major Component", in this context, means a major essential component (kernel, window system, and so on) of the specific operating system (if any) on which the executable work runs, or a compiler used to produce the work, or an object code interpreter used to run it.

The "Corresponding Source" for a work in object code form means all the source code needed to generate, install, and (for an executable work) run the object code and to modify the work, including scripts to control those activities. However, it does not include the work's System Libraries, or general-purpose tools or generally available free programs which are used unmodified in performing those activities but which are not part of the work. For example, Corresponding Source includes interface definition files associated with source files for the work, and the source code for shared libraries and dynamically linked subprograms that the work is specifically designed to require, such as by intimate data communication or control flow between those subprograms and other parts of the work.

The Corresponding Source need not include anything that users can regenerate automatically from other parts of the Corresponding Source.

The Corresponding Source for a work in source code form is that same work.

2. Basic Permissions.

All rights granted under this License are granted for the term of copyright on the Program, and are irrevocable provided

the stated conditions are met. This License explicitly affirms your unlimited permission to run the unmodified Program. The output from running a covered work is covered by this License only if the output, given its content, constitutes a covered work. This License acknowledges your rights of fair use or other equivalent, as provided by copyright law.

You may make, run and propagate covered works that you do not convey, without conditions so long as your license otherwise remains in force. You may convey covered works to others for the sole purpose of having them make modifications exclusively for you, or provide you with facilities for running those works, provided that you comply with the terms of this License in conveying all material for which you do not control copyright. Those thus making or running the covered works for you must do so exclusively on your behalf, under your direction and control, on terms that prohibit them from making any copies of your copyrighted material outside their relationship with you.

Conveying under any other circumstances is permitted solely under the conditions stated below. Sublicensing is not allowed; section 10 makes it unnecessary.

3. Protecting Users' Legal Rights From Anti-Circumvention Law.

No covered work shall be deemed part of an effective technological measure under any applicable law fulfilling obligations under article 11 of the WIPO copyright treaty adopted on 20 December 1996, or similar laws prohibiting or restricting circumvention of such measures.

When you convey a covered work, you waive any legal power to forbid circumvention of technological measures to the extent such circumvention is effected by exercising rights under this License with respect to the covered work, and you disclaim any intention to limit operation or modification of the work as a means of enforcing, against the work's users, your or third parties' legal rights to forbid circumvention of technological measures.

4. Conveying Verbatim Copies.

You may convey verbatim copies of the Program's source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice; keep intact all notices stating that this License and any non-permissive terms added in accord with section 7 apply to the code; keep intact all notices of the absence of any warranty; and give all recipients a copy of this License along with the Program.

You may charge any price or no price for each copy that you convey, and you may offer support or warranty protection for a fee.

5. Conveying Modified Source Versions.

You may convey a work based on the Program, or the modifications to produce it from the Program, in the form of source code under the terms of section 4, provided that you also meet all of these conditions:

- The work must carry prominent notices stating that you modified it, and giving a relevant date.
- The work must carry prominent notices stating that it is released under this License and any conditions added under section 7. This requirement modifies the requirement in section 4 to "keep intact all notices".
- You must license the entire work, as a whole, under this License to anyone who comes into possession of a copy. This License will therefore apply, along with any applicable section 7 additional terms, to the whole of the work, and all its parts, regardless of how they are packaged. This License gives no permission to license the work in any other way, but it does not invalidate such permission if you have separately received it.

- If the work has interactive user interfaces, each must display Appropriate Legal Notices; however, if the Program has interactive interfaces that do not display Appropriate Legal Notices, your work need not make them do so.

A compilation of a covered work with other separate and independent works, which are not by their nature extensions of the covered work, and which are not combined with it such as to form a larger program, in or on a volume of a storage or distribution medium, is called an "aggregate" if the compilation and its resulting copyright are not used to limit the access or legal rights of the compilation's users beyond what the individual works permit. Inclusion of a covered work in an aggregate does not cause this License to apply to the other parts of the aggregate.

6. Conveying Non-Source Forms.

You may convey a covered work in object code form under the terms of sections 4 and 5, provided that you also convey the machine-readable Corresponding Source under the terms of this License, in one of these ways:

- Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by the Corresponding Source fixed on a durable physical medium customarily used for software interchange.
- Convey the object code in, or embodied in, a physical product (including a physical distribution medium), accompanied by a written offer, valid for at least three years and valid for as long as you offer spare parts or customer support for that product model, to give anyone who possesses the object code either (1) a copy of the Corresponding Source for all the software in the product that is covered by this License, on a durable physical medium customarily used for software interchange, for a price no more than your reasonable cost of physically performing this conveying of source, or (2) access to copy the Corresponding Source from a network server at no charge.
- Convey individual copies of the object code with a copy of the written offer to provide the corresponding Source. This alternative is allowed only occasionally and noncommercially, and only if you received the object code with such an offer, in accord with subsection 6b.
- Convey the object code by offering access from a designated place (gratis or for a charge), and offer equivalent access to the Corresponding Source in the same way through the same place at no further charge. You need not require recipients to copy the Corresponding Source along with the object code. If the place to copy the object code is a network server, the Corresponding Source may be on a different server (operated by you or a third party) that supports equivalent copying facilities, provided you maintain clear directions next to the object code saying where to find the Corresponding Source. Regardless of what server hosts the Corresponding Source, you remain obligated to ensure that it is available for as long as needed to satisfy these requirements.
- Convey the object code using peer-to-peer transmission, provided you inform other peers where the object code and Corresponding Source of the work are being offered to the general public at no charge under subsection 6d.

A separable portion of the object code, whose source code is excluded from the Corresponding Source as a System Library, need not be included in conveying the object code work.

A "User Product" is either (1) a "consumer product", which means any tangible personal property which is normally used for personal, family, or household purposes, or (2) anything designed or sold for incorporation into a dwelling. In determining whether a product is a consumer product,

doubtful cases shall be resolved in favor of coverage. For a particular product received by a particular user, "normally used" refers to a typical or common use of that class of product, regardless of the status of the particular user or of the way in which the particular user actually uses, or expects or is expected to use, the product. A product is a consumer product regardless of whether the product has substantial commercial, industrial or non-consumer uses, unless such uses represent the only significant mode of use of the product.

"Installation Information" for a User Product means any methods, procedures, authorization keys, or other information required to install and execute modified versions of a covered work in that User Product from a modified version of its Corresponding Source. The information must suffice to ensure that the continued functioning of the modified object code is in no case prevented or interfered with solely because modification has been made.

If you convey an object code work under this section in, or with, or specifically for use in, a User Product, and the conveying occurs as part of a transaction in which the right of possession and use of the User Product is transferred to the recipient in perpetuity or for a fixed term (regardless of how the transaction is characterized), the Corresponding Source conveyed under this section must be accompanied by the Installation Information. But this requirement does not apply if neither you nor any third party retains the ability to install modified object code on the User Product (for example, the work has been installed in ROM).

The requirement to provide Installation Information does not include a requirement to continue to provide support service, warranty, or updates for a work that has been modified or installed by the recipient, or for the User Product in which it has been modified or installed. Access to a network may be denied when the modification itself materially and adversely affects the operation of the network or violates the rules and protocols for communication across the network.

Corresponding Source conveyed, and Installation Information provided, in accord with this section must be in a format that is publicly documented (and with an implementation available to the public in source code form), and must require no special password or key for unpacking, reading or copying.

7. Additional Terms.

"Additional permissions" are terms that supplement the terms of this License by making exceptions from one or more of its conditions. Additional permissions that are applicable to the entire Program shall be treated as though they were included in this License, to the extent that they are valid under applicable law. If additional permissions apply only to part of the Program, that part may be used separately under those permissions, but the entire Program remains governed by this License without regard to the additional permissions.

When you convey a copy of a covered work, you may at your option remove any additional permissions from that copy, or from any part of it. (Additional permissions may be written to require their own removal in certain cases when you modify the work.) You may place additional permissions on material, added by you to a covered work, for which you have or can give appropriate copyright permission.

Notwithstanding any other provision of this License, for material you add to a covered work, you may (if authorized by the copyright holders of that material) supplement the terms of this License with terms:

- a) Disclaiming warranty or limiting liability differently from the terms of sections 15 and 16 of this License; or
- b) Requiring preservation of specified reasonable legal notices or author attributions in that material or in the Appropriate Legal Notices displayed by works containing it; or

- c) Prohibiting misrepresentation of the origin of that material, or requiring that modified versions of such material be marked in reasonable ways as different from the original version; or
- d) Limiting the use for publicity purposes of names of licensors or authors of the material; or
- e) Declining to grant rights under trademark law for use of some trade names, trademarks, or service marks; or
- f) Requiring indemnification of licensors and authors of that material by anyone who conveys the material (or modified versions of it) with contractual assumptions of liability to the recipient, for any liability that these contractual assumptions directly impose on those licensors and authors.

All other non-permissive additional terms are considered "further restrictions" within the meaning of section 10. If the Program as you received it, or any part of it, contains a notice stating that it is governed by this License along with a term that is a further restriction, you may remove that term. If a license document contains a further restriction but permits relicensing or conveying under this License, you may add to a covered work material governed by the terms of that license document, provided that the further restriction does not survive such relicensing or conveying.

If you add terms to a covered work in accord with this section, you must place, in the relevant source files, a statement of the additional terms that apply to those files, or a notice indicating where to find the applicable terms.

Additional terms, permissive or non-permissive, may be stated in the form of a separately written license, or stated as exceptions; the above requirements apply either way.

8. Termination.

You may not propagate or modify a covered work except as expressly provided under this License. Any attempt otherwise to propagate or modify it is void, and will automatically terminate your rights under this License (including any patent licenses granted under the third paragraph of section 11).

However, if you cease all violation of this License, then your license from a particular copyright holder is reinstated (a) provisionally, unless and until the copyright holder explicitly and finally terminates your license, and (b) permanently, if the copyright holder fails to notify you of the violation by some reasonable means prior to 60 days after the cessation.

Moreover, your license from a particular copyright holder is reinstated permanently if the copyright holder notifies you of the violation by some reasonable means, this is the first time you have received notice of violation of this License (for any work) from that copyright holder, and you cure the violation prior to 30 days after your receipt of the notice.

Termination of your rights under this section does not terminate the licenses of parties who have received copies or rights from you under this License. If your rights have been terminated and not permanently reinstated, you do not qualify to receive new licenses for the same material under section 10.

9. Acceptance Not Required for Having Copies.

You are not required to accept this License in order to receive or run a copy of the Program. Ancillary propagation of a covered work occurring solely as a consequence of using peer-to-peer transmission to receive a copy likewise does not require acceptance. However, nothing other than this License grants you permission to propagate or modify any covered work. These actions infringe copyright if you do not accept this License. Therefore, by modifying or propagating a covered work, you indicate your acceptance of this License to do so.

10. Automatic Licensing of Downstream Recipients.

Each time you convey a covered work, the recipient automatically receives a license from the original licensors, to run, modify and propagate that work, subject to this License. You are not responsible for enforcing compliance by third parties with this License.

An "entity transaction" is a transaction transferring control of an organization, or substantially all assets of one, or subdividing an organization, or merging organizations. If propagation of a covered work results from an entity transaction, each party to that transaction who receives a copy of the work also receives whatever licenses to the work the party's predecessor in interest had or could give under the previous paragraph, plus a right to possession of the Corresponding Source of the work from the predecessor in interest, if the predecessor has it or can get it with reasonable efforts.

You may not impose any further restrictions on the exercise of the rights granted or affirmed under this License. For example, you may not impose a license fee, royalty, or other charge for exercise of rights granted under this License, and you may not initiate litigation (including a cross-claim or counterclaim in a lawsuit) alleging that any patent claim is infringed by making, using, selling, offering for sale, or importing the Program or any portion of it.

11. Patents.

A "contributor" is a copyright holder who authorizes use under this License of the Program or a work on which the Program is based. The work thus licensed is called the contributor's "contributor version".

A contributor's "essential patent claims" are all patent claims owned or controlled by the contributor, whether already acquired or hereafter acquired, that would be infringed by some manner, permitted by this License, of making, using, or selling its contributor version, but do not include claims that would be infringed only as a consequence of further modification of the contributor version. For purposes of this definition, "control" includes the right to grant patent sublicenses in a manner consistent with the requirements of this License.

Each contributor grants you a non-exclusive, worldwide, royalty-free patent license under the contributor's essential patent claims, to make, use, sell, offer for sale, import and otherwise run, modify and propagate the contents of its contributor version.

In the following three paragraphs, a "patent license" is any express agreement or commitment, however denominated, not to enforce a patent (such as an express permission to practice a patent or covenant not to sue for patent infringement). To "grant" such a patent license to a party means to make such an agreement or commitment not to enforce a patent against the party.

If you convey a covered work, knowingly relying on a patent license, and the Corresponding Source of the work is not available for anyone to copy, free of charge and under the terms of this License, through a publicly available network server or other readily accessible means, then you must either (1) cause the Corresponding Source to be so available, or (2) arrange to deprive yourself of the benefit of the patent license for this particular work, or (3) arrange, in a manner consistent with the requirements of this License, to extend the patent license to downstream recipients. "Knowingly relying" means you have actual knowledge that, but for the patent license, your conveying the covered work in a country, or your recipient's use of the covered work in a country, would infringe one or more identifiable patents in that country that you have reason to believe are valid.

If, pursuant to or in connection with a single transaction or arrangement, you convey, or propagate by procuring conveyance of, a covered work, and grant a patent license to some of the parties receiving the covered work authorizing them to use, propagate, modify or convey a specific copy of the covered work, then the patent license you grant is automatically extended to all recipients of the covered work and works based on it.

A patent license is "discriminatory" if it does not include within the scope of its coverage, prohibits the exercise of, or is conditioned on the non-exercise of one or more of the rights that are specifically granted under this License. You may not convey a covered work if you are a party to an arrangement with a third party that is in the business of distributing software, under which you make payment to the third party based on the extent of your activity of conveying the work, and under which the third party grants, to any of the parties who would receive the covered work from you, a discriminatory patent license

- (a) in connection with copies of the covered work conveyed by you (or copies made from those copies), or
- (b) primarily for and in connection with specific products or compilations that contain the covered work, unless you entered into that arrangement, or that patent license was granted, prior to 28 March 2007.

Nothing in this License shall be construed as excluding or limiting any implied license or other defenses to infringement that may otherwise be available to you under applicable patent law.

12. No Surrender of Others' Freedom.

If conditions are imposed on you (whether by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot convey a covered work so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not convey it at all. For example, if you agree to terms that obligate you to collect a royalty for further conveying from those to whom you convey the Program, the only way you could satisfy both those terms and this License would be to refrain entirely from conveying the Program.

13. Use with the GNU Affero General Public License.

Notwithstanding any other provision of this License, you have permission to link or combine any covered work with a work licensed under version 3 of the GNU Affero General Public License into a single combined work, and to convey the resulting work. The terms of this License will continue to apply to the part which is the covered work, but the special requirements of the GNU Affero General Public License, section 13, concerning interaction through a network will apply to the combination as such.

14. Revised Versions of this License.

The Free Software Foundation may publish revised and/or new versions of the GNU General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Program specifies that a certain numbered version of the GNU General Public License "or any later version" applies to it, you have the option of following the terms and conditions either of that numbered version or of any later version published by the Free Software Foundation. If the Program does not specify a version number of the GNU General Public License, you may choose any version ever published by the Free Software Foundation.

If the Program specifies that a proxy can decide which future versions of the GNU General Public License can be used, that proxy's public statement of acceptance of a version permanently authorizes you to choose that version for the Program.

Later license versions may give you additional or different permissions. However, no additional obligations are imposed on any author or copyright holder as a result of your choosing to follow a later version.

15. Disclaimer of Warranty.

THERE IS NO WARRANTY FOR THE PROGRAM, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE PROGRAM "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE PROGRAM IS WITH YOU. SHOULD THE PROGRAM PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. Limitation of Liability.

IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MODIFIES AND/OR CONVEYS THE PROGRAM AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE PROGRAM (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE PROGRAM TO OPERATE WITH ANY OTHER PROGRAMS), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

17. Interpretation of Sections 15 and 16.

If the disclaimer of warranty and limitation of liability provided above cannot be given local legal effect according to their terms, reviewing courts shall apply local law that most closely approximates an absolute waiver of all civil liability in connection with the Program, unless a warranty or assumption of liability accompanies a copy of the Program in return for a fee.

END OF TERMS AND CONDITIONS

GNU LESSER GENERAL PUBLIC LICENSE

Version 2.1, February 1999

Copyright (C) 1991, 1999 Free Software Foundation, Inc. 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301

USA Everyone is permitted to copy and distribute verbatim copies of this license document, but changing it is not allowed.

[This is the first released version of the Lesser GPL. It also counts as the successor of the GNU Library Public License, version 2, hence the version number 2.1.]

Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software to make sure the software is free for all its users.

This license, the Lesser General Public License, applies to some specially designated software packages—typically libraries—of the Free Software Foundation and other authors who decide to use it. You can use it too, but we suggest you first think carefully about whether this license or the ordinary General Public License is the better strategy to use in any particular case, based on the explanations below.

When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/ Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

TERMS AND CONDITIONS FOR COPYING, DISTRIBUTION AND MODIFICATION

0. This License Agreement applies to any software library or other program which contains a notice placed by the copyright holder or other authorized party saying it may be distributed under the terms of this Lesser General Public License (also called "this License"). Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

a) The modified work must itself be a software library.
b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful. (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.) These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the Library".

The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

- a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)
- b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that
(1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
 - b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.
8. You may not copy, modify, sublicense, link with, or distribute the Library except as expressly provided under this License. Any attempt otherwise to copy, modify, sublicense, link with, or distribute the Library is void, and will automatically terminate your rights under this License. However, parties who have received copies, or rights, from you under this License will not have their licenses terminated so long as such parties remain in full compliance.
9. You are not required to accept this License, since you have not signed it. However, nothing else grants you permission to modify or distribute the Library or its derivative works. These actions are prohibited by law if you do not accept this License. Therefore, by modifying or distributing the Library (or any work based on the Library), you indicate your acceptance of this License to do so, and all its terms and conditions for copying, distributing or modifying the Library or works based on it.
10. Each time you redistribute the Library (or any work based on the Library), the recipient automatically receives a license from the original licensor to copy, distribute, link with or modify the Library subject to these terms and conditions. You may not impose any further restrictions on the recipients' exercise of the rights granted herein. You are not responsible for enforcing compliance by third parties with this License.
11. If, as a consequence of a court judgment or allegation of patent infringement or for any other reason (not limited to patent issues), conditions are imposed on you (whether

by court order, agreement or otherwise) that contradict the conditions of this License, they do not excuse you from the conditions of this License. If you cannot distribute so as to satisfy simultaneously your obligations under this License and any other pertinent obligations, then as a consequence you may not distribute the Library at all. For example, if a patent license would not permit royalty free redistribution of the Library by all those who receive copies directly or indirectly through you, then the only way you could satisfy both it and this License would be to refrain entirely from distribution of the Library.

If any portion of this section is held invalid or unenforceable under any particular circumstance, the balance of the section is intended to apply, and the section as a whole is intended to apply in other circumstances.

It is not the purpose of this section to induce you to infringe any patents or other property right claims or to contest validity of any such claims; this section has the sole purpose of protecting the integrity of the free software distribution system which is implemented by public license practices. Many people have made generous contributions to the wide range of software distributed through that system in reliance on consistent application of that system; it is up to the author/donor to decide if he or she is willing to distribute software through any other system and a licensee cannot impose that choice.

This section is intended to make thoroughly clear what is believed to be a consequence of the rest of this License.

12. If the distribution and/or use of the Library is restricted in certain countries either by patents or by copyrighted interfaces, the original copyright holder who places the Library under this License may add an explicit geographical distribution limitation excluding those countries, so that distribution is permitted only in or among countries not thus excluded. In such case, this License incorporates the limitation as if written in the body of this License.

13. The Free Software Foundation may publish revised and/or new versions of the Lesser General Public License from time to time. Such new versions will be similar in spirit to the present version, but may differ in detail to address new problems or concerns.

Each version is given a distinguishing version number. If the Library specifies a version number of this License which applies to it and "any later version", you have the option of following the terms and conditions either of that version or of any later version published by the Free Software Foundation. If the Library does not specify a license version number, you may choose any version ever published by the Free Software Foundation.

14. If you wish to incorporate parts of the Library into other free programs whose distribution conditions are incompatible with these, write to the author to ask for permission. For software which is copyrighted by the Free Software Foundation, write to the Free Software Foundation; we sometimes make exceptions for this. Our decision will be guided by the two goals of preserving the free status of all derivatives of our free software and of promoting the sharing and reuse of software generally.

NO WARRANTY

15. BECAUSE THE LIBRARY IS LICENSED FREE OF CHARGE, THERE IS NO WARRANTY FOR THE LIBRARY, TO THE EXTENT PERMITTED BY APPLICABLE LAW. EXCEPT WHEN OTHERWISE STATED IN WRITING THE COPYRIGHT HOLDERS AND/OR OTHER PARTIES PROVIDE THE LIBRARY "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT

NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE ENTIRE RISK AS TO THE QUALITY AND PERFORMANCE OF THE LIBRARY IS WITH YOU. SHOULD THE LIBRARY PROVE DEFECTIVE, YOU ASSUME THE COST OF ALL NECESSARY SERVICING, REPAIR OR CORRECTION.

16. IN NO EVENT UNLESS REQUIRED BY APPLICABLE LAW OR AGREED TO IN WRITING WILL ANY COPYRIGHT HOLDER, OR ANY OTHER PARTY WHO MAY MODIFY AND/OR REDISTRIBUTE THE LIBRARY AS PERMITTED ABOVE, BE LIABLE TO YOU FOR DAMAGES, INCLUDING ANY GENERAL, SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING OUT OF THE USE OR INABILITY TO USE THE LIBRARY (INCLUDING BUT NOT LIMITED TO LOSS OF DATA OR DATA BEING RENDERED INACCURATE OR LOSSES SUSTAINED BY YOU OR THIRD PARTIES OR A FAILURE OF THE LIBRARY TO OPERATE WITH ANY OTHER SOFTWARE), EVEN IF SUCH HOLDER OR OTHER PARTY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

END OF TERMS AND CONDITIONS

How to Apply These Terms to Your New Libraries

If you develop a new library, and you want it to be of the greatest possible use to the public, we recommend making it free software that everyone can redistribute and change. You can do so by permitting redistribution under these terms (or, alternatively, under the terms of the ordinary General Public License).

To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found. one line to give the library's name and an idea of what it does.

Copyright (C) year name of author

This library is free software; you can redistribute it and/or modify it under the terms of the GNU Lesser General Public License as published by the Free Software Foundation; either version 2.1 of the License, or (at your option) any later version.

This library is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU Lesser General Public License for more details.

You should have received a copy of the GNU Lesser General Public License along with this library; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library "Frob" (a library for tweaking knobs) written by James Random Hacker.

signature of Ty Coon, 1 April 1990 Ty Coon, President of Vice.

OpenSSL LICENSE

Copyright (c) 1998-2006 The OpenSSL Project. All rights reserved. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgment: "This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (<http://www.openssl.org/>)"
4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact openssl-core@openssl.org.
5. Products derived from this software may not be called "OpenSSL" nor may "OpenSSL" appear in their names without prior written permission of the OpenSSL Project.
6. Redistributions of any form whatsoever must retain the following acknowledgment: "This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>)"

THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT "AS IS" AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE. This product includes cryptographic software written by Eric Young (ey@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com).

Original SSLeay License

Copyright (C) 1995-1998 Eric Young (ey@cryptsoft.com)
All rights reserved. This package is an SSL implementation written by Eric Young (ey@cryptsoft.com). The implementation was written so as to conform with Netscapes SSL. This library is free for commercial and non-commercial use as long as the following conditions are adhered to. The following conditions apply to all code found in this distribution, be it the RC4, RSA, lhash, DES, etc., code; not just the SSL code. The SSL documentation included with this distribution is covered by the same copyright terms except that the holder is Tim Hudson (tjh@cryptsoft.com).

Copyright remains Eric Young's, and as such any Copyright notices in the code are not to be removed. If this package is used in a product, Eric Young should be given attribution as the author of the parts of the library used. This can be in the form of a textual message at program startup or in

documentation (online or textual) provided with the package. Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. All advertising materials mentioning features or use of this software must display the following acknowledgement: "This product includes cryptographic software written by Eric Young (ey@cryptsoft.com)" The word 'cryptographic' can be left out if the routines from the library being used are not cryptographic related :-).
4. If you include any Windows specific code (or a derivative thereof) from the apps directory (application code) you must include an acknowledgement: "This product includes software written by Tim Hudson (tjh@cryptsoft.com)"

THIS SOFTWARE IS PROVIDED BY ERIC YOUNG "AS IS AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The licence and distribution terms for any publically available version or derivative of this code cannot be changed. i.e. this code cannot simply be copied and put under another distribution licence [including the GNU Public Licence.]



La tutela dell'ambiente è molto importante per Samsung Techwin, che ne tiene conto in ogni fase della fabbricazione dei suoi prodotti ed è alla ricerca costante di nuove soluzioni per fornire al cliente prodotti sempre più rispettosi dell'ambiente.

Il marchio Eco rappresenta la dedizione di Samsung Techwin nel creare prodotti nel rispetto dell'ambiente e indica che il prodotto soddisfa la Direttiva EU RoHS.



Corretto smaltimento del prodotto (rifiuti elettrici ed elettronici)

(Applicabile nell'Unione Europea e in altri paesi europei con sistema di raccolta differenziata)

Il marchio riportato sul prodotto, sugli accessori o sulla documentazione indica che il prodotto e i relativi accessori elettronici (quali caricabatterie, cuffia e cavo USB) non devono essere smaltiti con altri rifiuti domestici al termine del ciclo di vita. Per evitare eventuali danni all'ambiente o alla salute causati dall'inopportuno smaltimento dei rifiuti, si invita l'utente a separare il prodotto e i suddetti accessori da altri tipi di rifiuti e di riciclarli in maniera responsabile per favorire il riutilizzo sostenibile delle risorse materiali.

Gli utenti domestici sono invitati a contattare il rivenditore presso il quale è stato acquistato il prodotto o l'ufficio locale preposto per tutte le informazioni relative alla raccolta differenziata e al riciclaggio per questo tipo di materiali.

Gli utenti aziendali sono invitati a contattare il proprio fornitore e verificare i termini e le condizioni del contratto di acquisto. Questo prodotto e i relativi accessori elettronici non devono essere smaltiti unitamente ad altri rifiuti commerciali.



Corretto smaltimento delle batterie di questo prodotto

(applicabile nell'Unione Europea e in altri Paesi europei con sistemi di raccolta differenziata delle batterie).

Questo simbolo, riportato sulla batteria, sul manuale o sull'imballaggio indica che le batterie di questo prodotto non devono essere smaltite con i normali rifiuti domestici al termine della loro vita utile. Laddove indicati, i simboli chimici Hg, Cd o Pb segnalano che la batteria contiene mercurio, cadmio o piombo in quantità superiori ai livelli di riferimento della direttiva CE 2006/66. Se le batterie non vengono smaltite correttamente, le sostanze in esse contenute possono provocare danni all'ambiente e alla salute.

Per proteggere le risorse naturali e promuovere il riutilizzo dei materiali, separare le batterie dagli altri tipi di rifiuti e riciclarle tramite il sistema di raccolta gratuita locale delle batterie.



RETE DI VENDITE

SAMSUNG TECHWIN CO., LTD.

Samsungtechwin R&D Center, 701, Sampyeong-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea, 463-400
TEL : +82-70-7147-8740~60 FAX : +82-31-8018-3745

SAMSUNG TECHWIN AMERICA Inc.

100 Challenger Rd. Suite 700 Ridgefield Park, NJ 07660
Toll Free : +1-877-213-1222 Direct : +1-201-325-6920
Fax : +1-201-373-0124
www.samsungcctvusa.com

SAMSUNG TECHWIN EUROPE LTD.

Samsung House, 1000 Hillswood Drive, Hillswood Business
Park Chertsey, Surrey, UNITED KINGDOM KT16 0PS
TEL : +44-1932-45-5300 FAX : +44-1932-45-5325

www.samsungtechwin.com
www.samsungsecurity.com
www.samsungipolis.com